

62-132 Wheeler

WHEELER REFLECTOR COMPANY.

156 PEARL STREET, BOSTON, MASS.

JULY, 1912

BULLETIN R

REFLECTORS AND FIXTURES FOR INDUSTRIAL LIGHTING



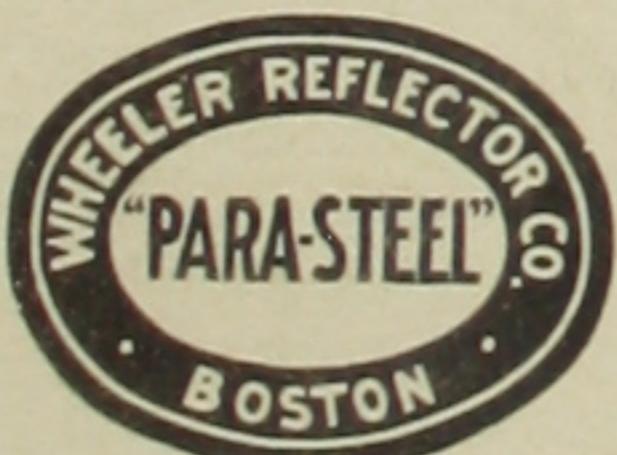
WHEELER "PARA-STEEL" REFLECTORS are made especially for use with Mazda Lamps in the illumination of industrial plants.

They are manufactured in their entirety in a factory which for upwards of thirty years has specialized on reflectors for all purposes of illumination.

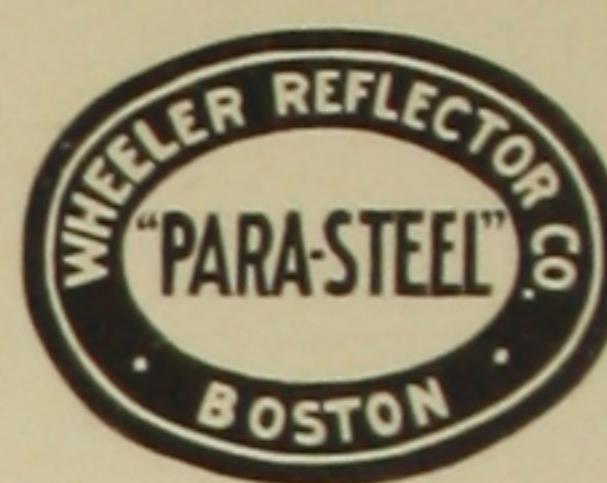
The designs are original and have been made with especial reference to the proper position of the Mazda lamp filament in its relation to the reflecting surface, so as to ensure a maximum of efficiency and a light distribution best adapted to the several distinct conditions covering the requirements of industrial operations.

THIS LABEL ON ALL GENUINE

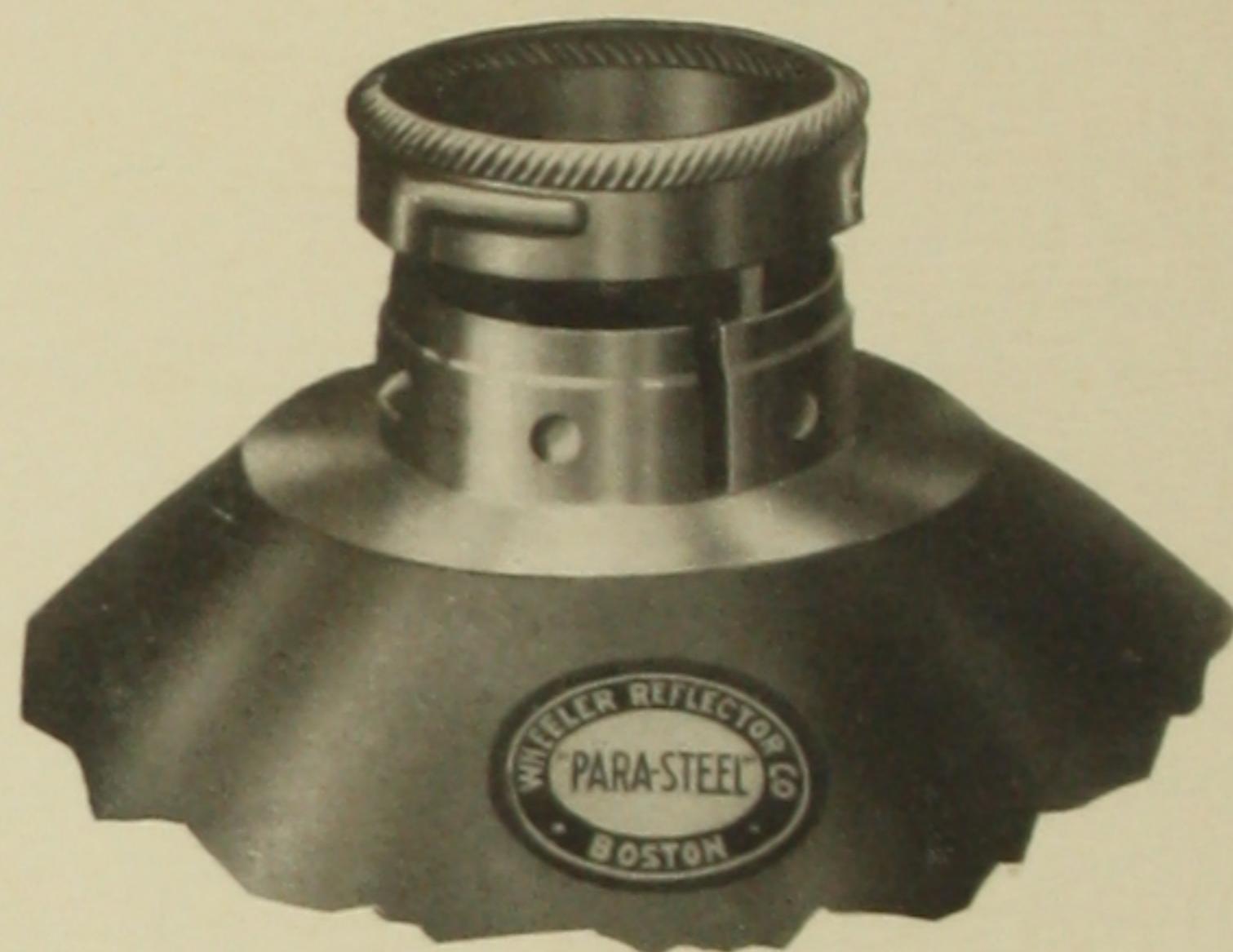
WHEELER



REFLECTORS



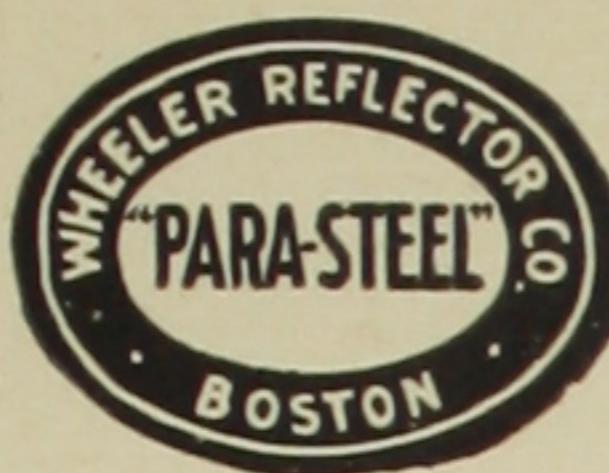
WHEELER HOLDER (Patented)



The Wheeler Holder, illustrated above, consists of two essential pieces; viz.:—a Brass Holder which springs over the bead on the bottom of a brass shell socket, and a Brass RING which clamps the HOLDER firmly to the socket.

Holders for both the Extensive and the Intensive positions are furnished; designated respectively in this Bulletin by the letters "X" (Extensive) and "N" (Intensive).

Wheeler "X" and "N" Holders are permanently attached to the Reflectors listed with "Holders Attached."



WHEELER "PARA-STEEL" REFLECTORS have been designed to meet four distinct conditions in the illumination of industrial plants, viz.:—

Group "F" (Flat Fluted) Reflectors give a wide light distribution, with some light above the horizontal, for use in factories, mills, machine shops, etc., where some light is needed for the repair, adjustment and oiling of shafting, belts and pulleys placed near the ceiling.

Group "D" (Shallow Dome) Reflectors give a wide light distribution and *no* light above the horizontal, for the General Illumination of factories, mills, machine shops, work benches, presses, sewing tables, and large areas in general.

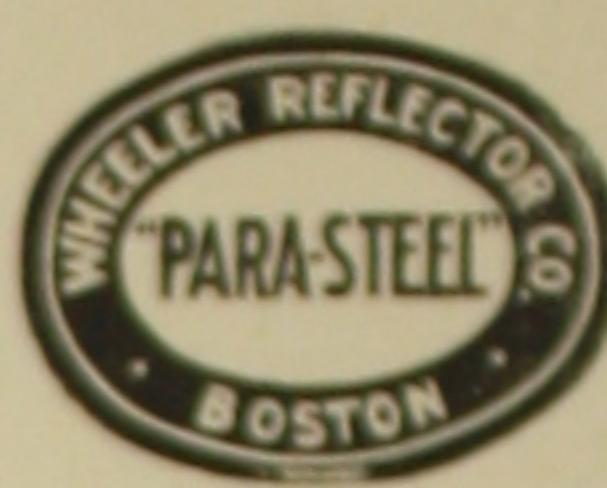
Group "W" (Wide) Reflectors give a wide light distribution, with all the flux confined within a zone of 75° from the vertical (and the greatest values within 60°), for greater heights—or greater intensities at the plane, than either of the preceding groups, for the General Illumination of factories, textile mills, machine shops, foundries, work benches, sewing rooms and large areas requiring bright illumination.

The Reflectors in this group have a greater efficiency than any other porcelain enameled steel reflectors so far placed on the market.

Group "P" (Parabolic) Reflectors give an Intensive light distribution with deep (or N) holder and Extensive with flat (or X) holders, and are especially adapted to Localized Lighting, where a greater illumination of the plane, within a limited area, is required. These finished in Porcelain Enamel are particularly serviceable in paper mills, chemical works, dye houses, etc., where excessive moisture and chemical fumes will quickly disintegrate painted reflectors.

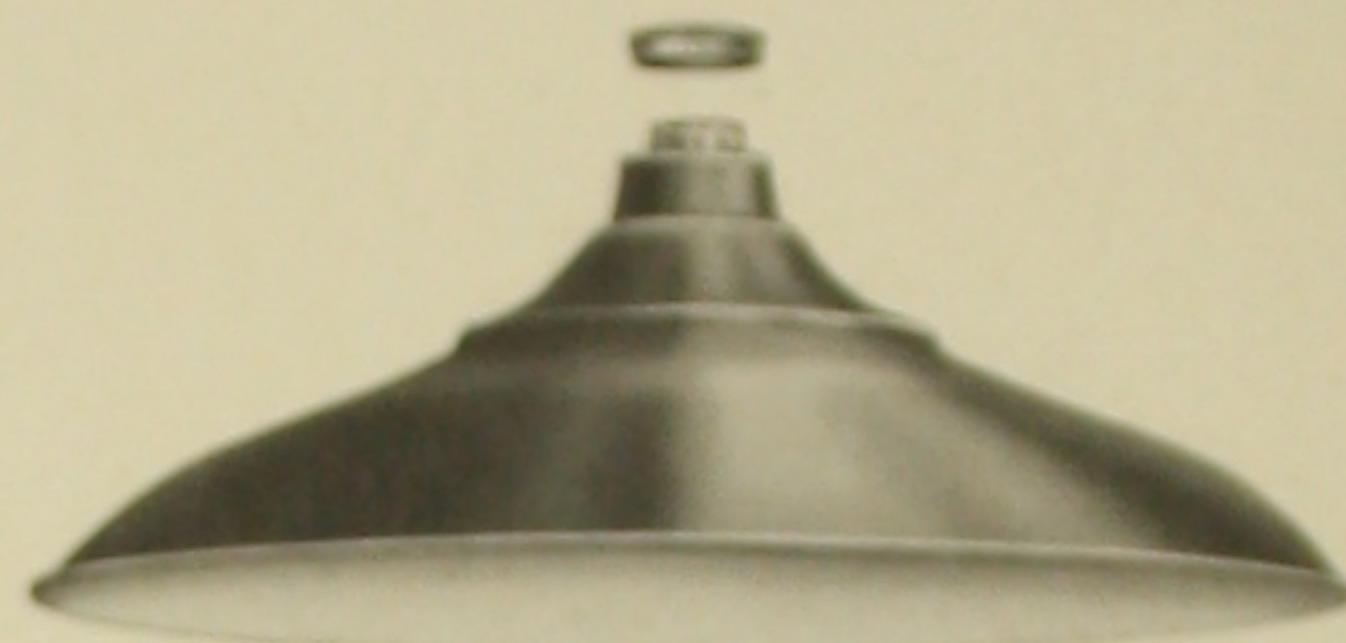
WHEELER MAZDA FIXTURES consist of Clusters for Mazda lamps operated in Multiple or Series, and of Single Lamp Fixtures, which are assembled from the larger sizes of WHEELER "PARA-STEEL" REFLECTORS with the Standard Fittings shown on page 19. Fixtures for the smaller lamps can be assembled from these fittings and appropriate reflectors as may be required, while Special Designs can be made to order.

The many prominent installations of these reflectors and fixtures that have been made, afford a practical demonstration of their efficiency and substantial construction.

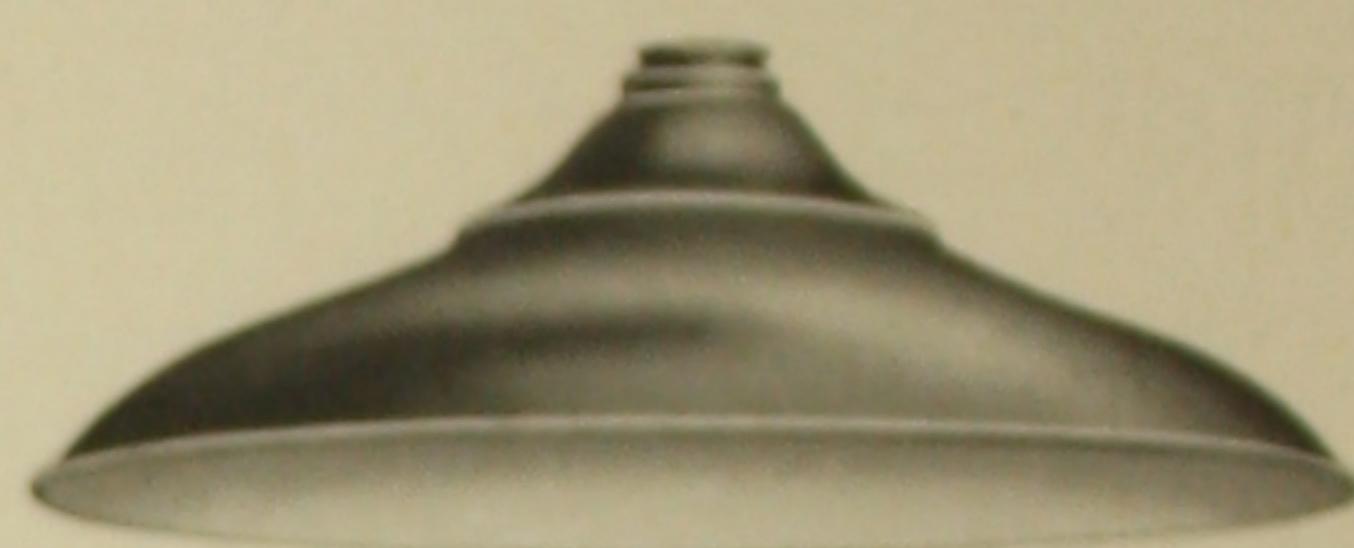


THE "W" GROUP—WIDE

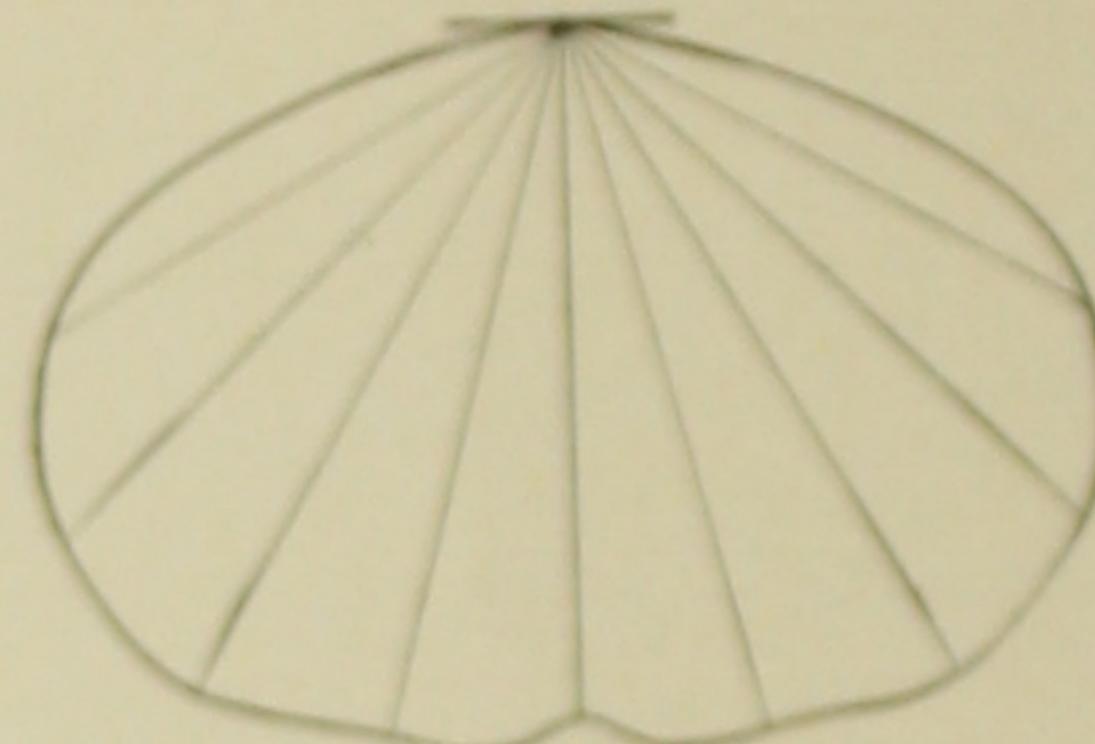
Porcelain Enameled Steel Reflectors for Industrial Lighting
Green Outside—White Reflecting Surface



WEX



WEC



"W"—Group

'E"—Enamel

'X"—Wheeler "X" (Extensive) Holders attached

"W"—Group

'E"—Enamel

'C"—Collars to fit standard holders

Characteristic Light Distribution—Wide—all within 75°

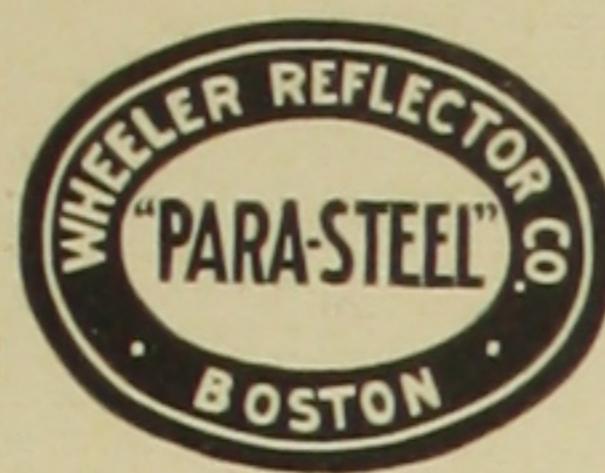
With Wheeler "X" Holders attached, to fit brass shell sockets

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
WEX 40	12"	X	25	125	50	\$1.45
WEX 60	15"	X	25	100	100	1.89
WEX100	18"	X	12	72	75	2.71
WEX150	18"	X	12	72	85	2.71
WEX250	18"	X	12	72	85	2.71

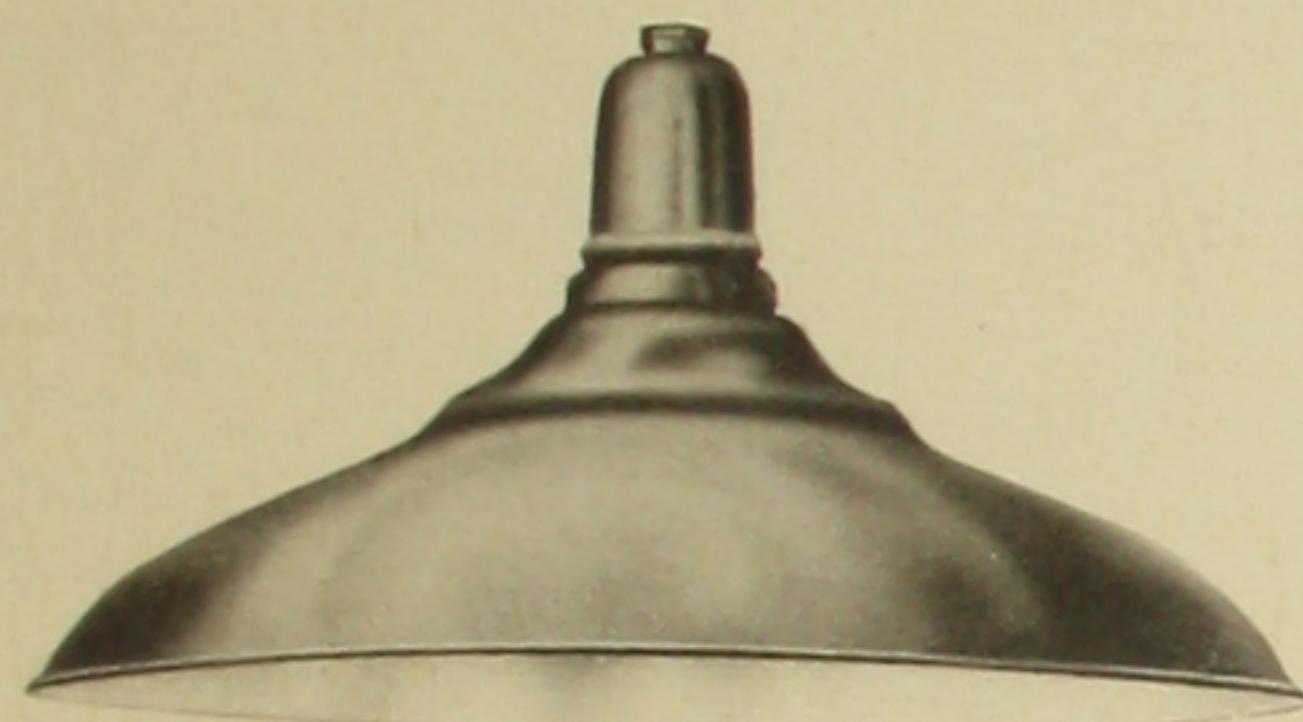
With Collars "C" to fit standard holders or Canopies "S" or "K"

Number	Diameter	Collar	Standard package	Standard quantity	Approx. wt. std. pkg.	List
WEC 40	12"	2 $\frac{1}{2}$ "	25	125	60	\$1.35
WEC 60	15"	2 $\frac{1}{2}$ "	25	100	100	1.79
WEC100	18"	2 $\frac{1}{2}$ "	12	72	65	2.61
WEC150	18"	2 $\frac{1}{2}$ "	12	72	80	2.61
WEC250	18"	3 $\frac{1}{2}$ "	12	60	80	2.90
WEC400	20"	3 $\frac{1}{2}$ "	8	64	55	3.05
WEC500	20"	3 $\frac{1}{2}$ "	8	64	55	3.05

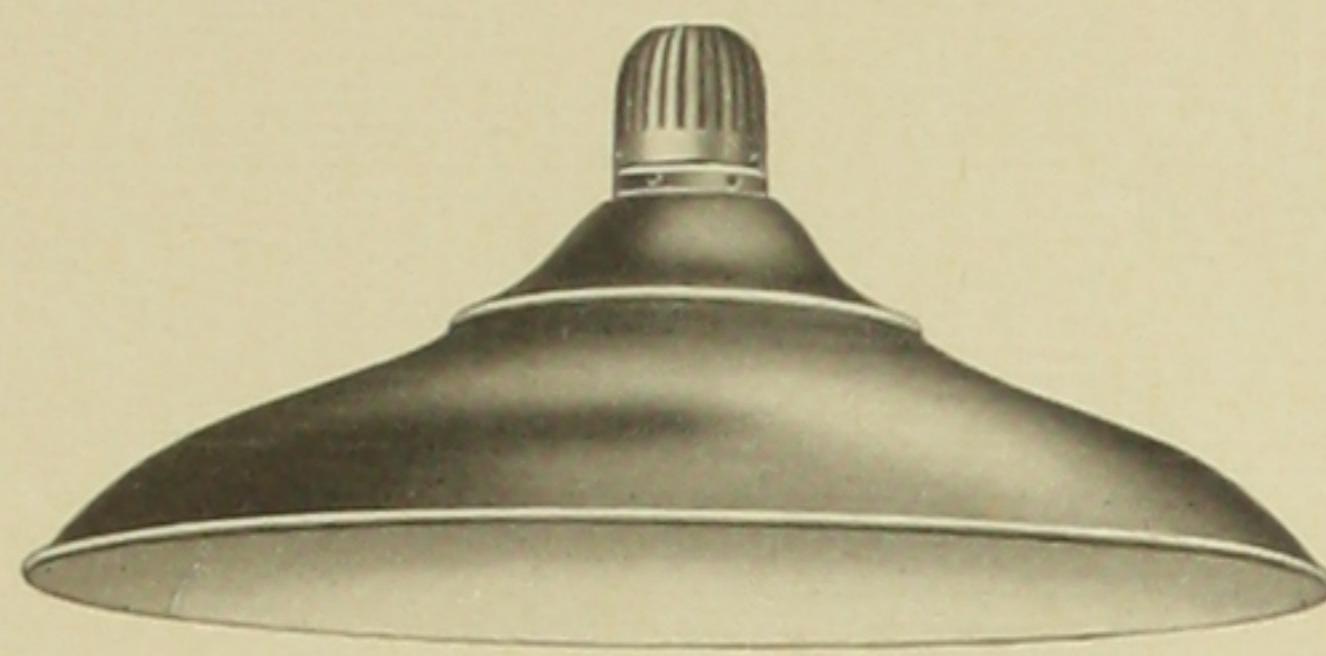
For description and prices of standard holders, Canopies "S" and "K," see page 19.



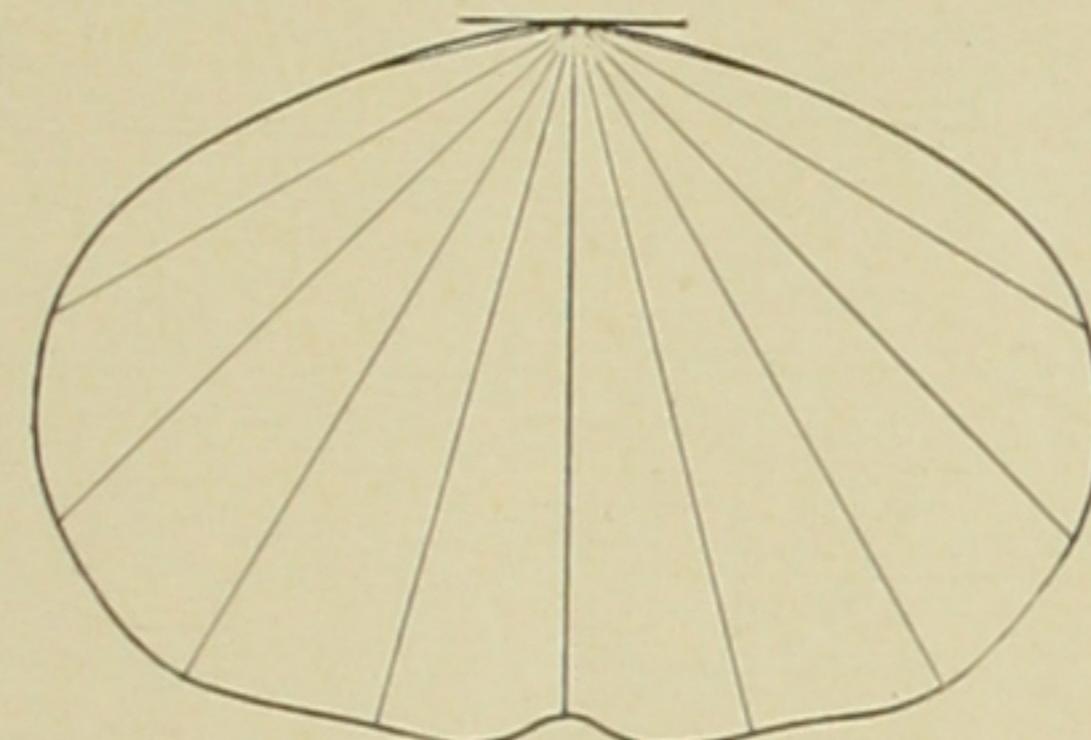
THE "W" GROUP—WIDE
Porcelain Enameled Steel Reflectors for Industrial Lighting
Green Outside—White Reflecting Surface



WES



WEK



"W"—Group
"E"—Enamel
"K"—Cast Canopy

"W"—Group
"E"—Enamel
"S"—Enameled Steel Canopy

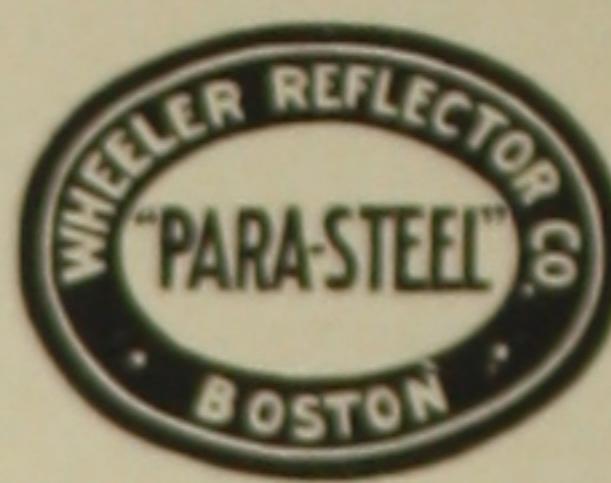
Characteristic Light Distribution—Wide—all within 75°

With Enameled Steel Canopy "S" permanently attached to Reflector, and with standard or large Edison base sockets

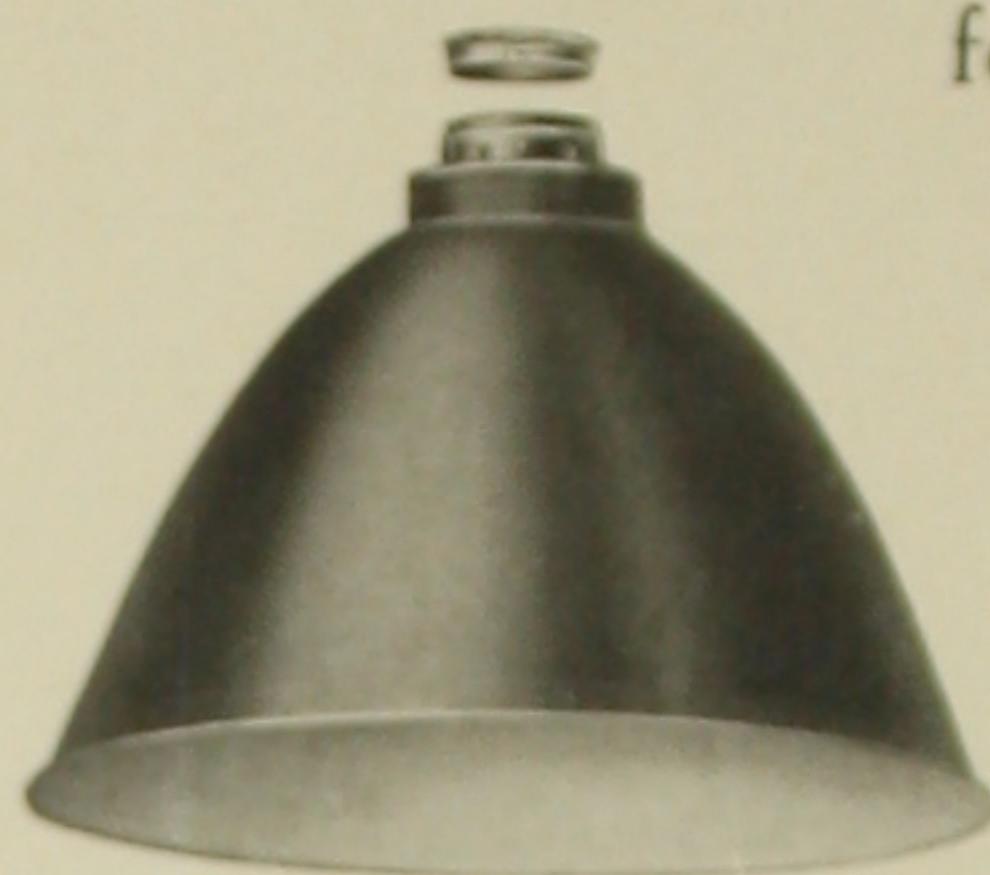
Number	Diameter	Diameter canopy	Socket attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
WES 40	12"	2 $\frac{1}{4}$ "	Std. Ed. base	25	100	145	\$2.05
WES 60	15"	2 $\frac{1}{4}$ "	Std. Ed. base	25	75	155	2.49
WES100	18"	2 $\frac{1}{4}$ "	Std. Ed. base	12	60	70	3.31
WES150	18"	2 $\frac{1}{4}$ "	Std. Ed. base	12	60	70	3.31
WES250	18"	3 $\frac{1}{4}$ "	Std. Ed. base	12	48	70	3.75
WES400	20"	3 $\frac{1}{4}$ "	Lge. Ed. base	8	40	85	4.44
WES500	20"	3 $\frac{1}{4}$ "	Lge. Ed. base	8	40	85	4.44

With Canopies "K" riveted to Reflector, and with standard or large Edison base sockets

Number	Diameter	Diameter canopy	Socket attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
WEK 40	12"	2 $\frac{1}{4}$ "	Std. Ed. base	25	100	155	\$2.05
WEK 60	15"	2 $\frac{1}{4}$ "	Std. Ed. base	25	150	165	2.49
WEK100	18"	2 $\frac{1}{4}$ "	Std. Ed. base	12	60	80	3.31
WEK150	18"	2 $\frac{1}{4}$ "	Std. Ed. base	12	60	80	3.31
WEK250	18"	3 $\frac{1}{4}$ "	Std. Ed. base	12	48	80	3.75
WEK400	20"	3 $\frac{1}{4}$ "	Lge. Ed. base	8	40	95	4.44
WEK500	20"	3 $\frac{1}{4}$ "	Lge. Ed. base	8	40	95	4.44

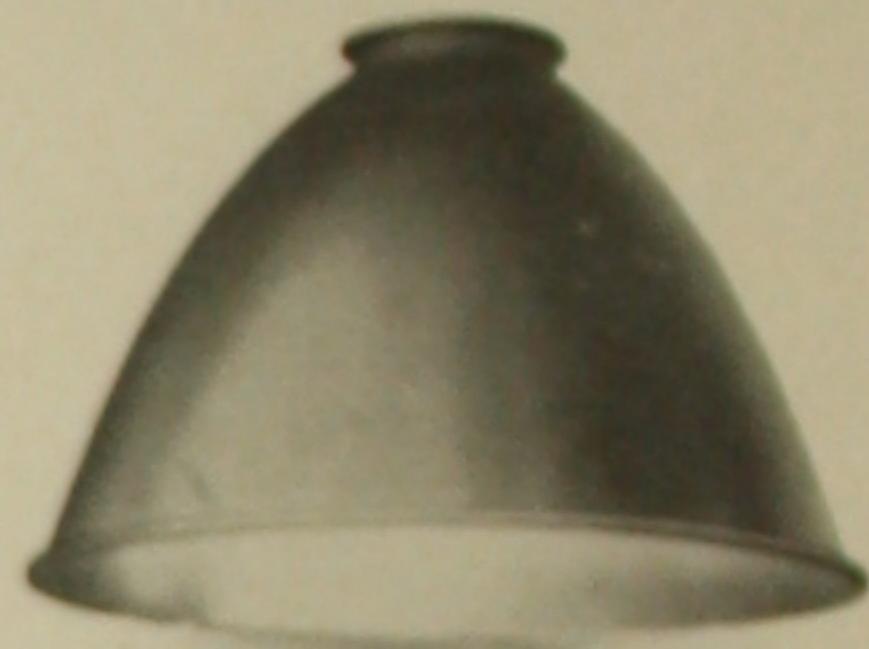


THE "P" GROUP—PARABOLIC
 Porcelain Enameled and Paint Enameled Steel Reflectors
 for Industrial Lighting



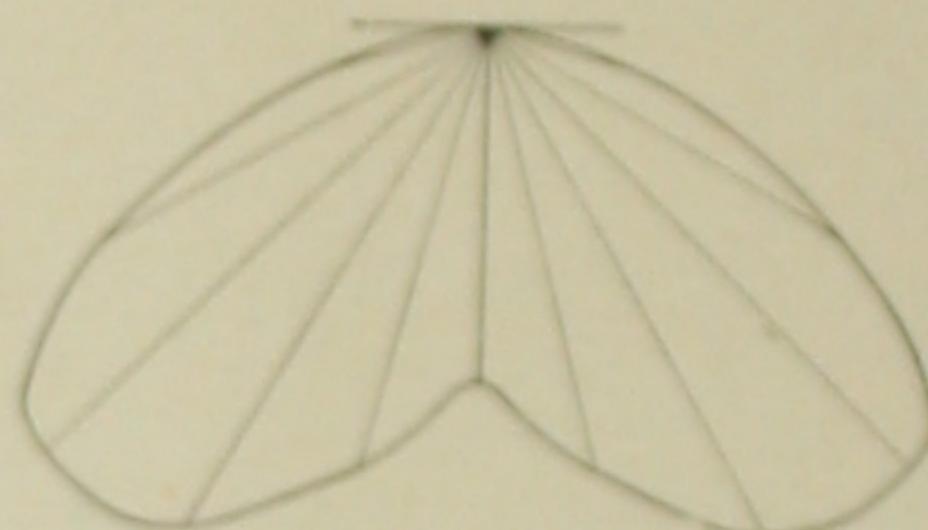
PEX and PAX

"P"—Group
 "E"—Enamel
 "A"—Aluminum
 "X"—Wheeler "X" (Extensive)
 Holder attached



PEC and PAC

"P"—Group
 "E"—Enamel
 "A"—Aluminum
 "C"—Collar to fit standard
 holders



Characteristic Light Distribution—Extensive

Porcelain Enameled—Green Outside, White Reflecting Surface
 With Wheeler "X" Holders attached, to fit brass shell sockets

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PEX 40	7"	X	50	200	55	\$1.02
PEX 60	8"	X	50	150	60	1.25
PEX100	9"	X	24	120	35	1.44

With Collars "C" to fit standard holders

Number	Diameter	Collar	Holder Int.	Holder Ext.	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PEC 40	7"	2 $\frac{1}{4}$ "	Deep	Flat	50	200	50	\$0.92
PEC 60	8"	2 $\frac{1}{4}$ "	Deep	Flat	50	150	55	1.15
PEC100	9"	2 $\frac{1}{4}$ "	Deep	Flat	24	144	35	1.34
PEC400	15"	3 $\frac{1}{4}$ "	Int. only	Special D.	8	56	50	3.45
PEC500	15"	3 $\frac{1}{4}$ "	Ext. only	Special D.	8	56	50	3.45

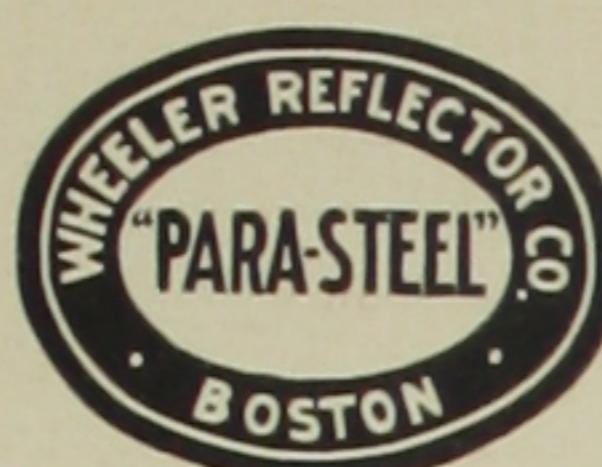
Paint Enameled—Green Outside, Matte Aluminum Reflecting Surface
 With Wheeler "X" Holders attached, to fit brass shell sockets

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PAX 40	7"	X	50	250	40	\$.66 \$0.70
PAX 60	8"	X	50	200	45	.88 .97
PAX100	9"	X	24	168	25	1.08 1.11

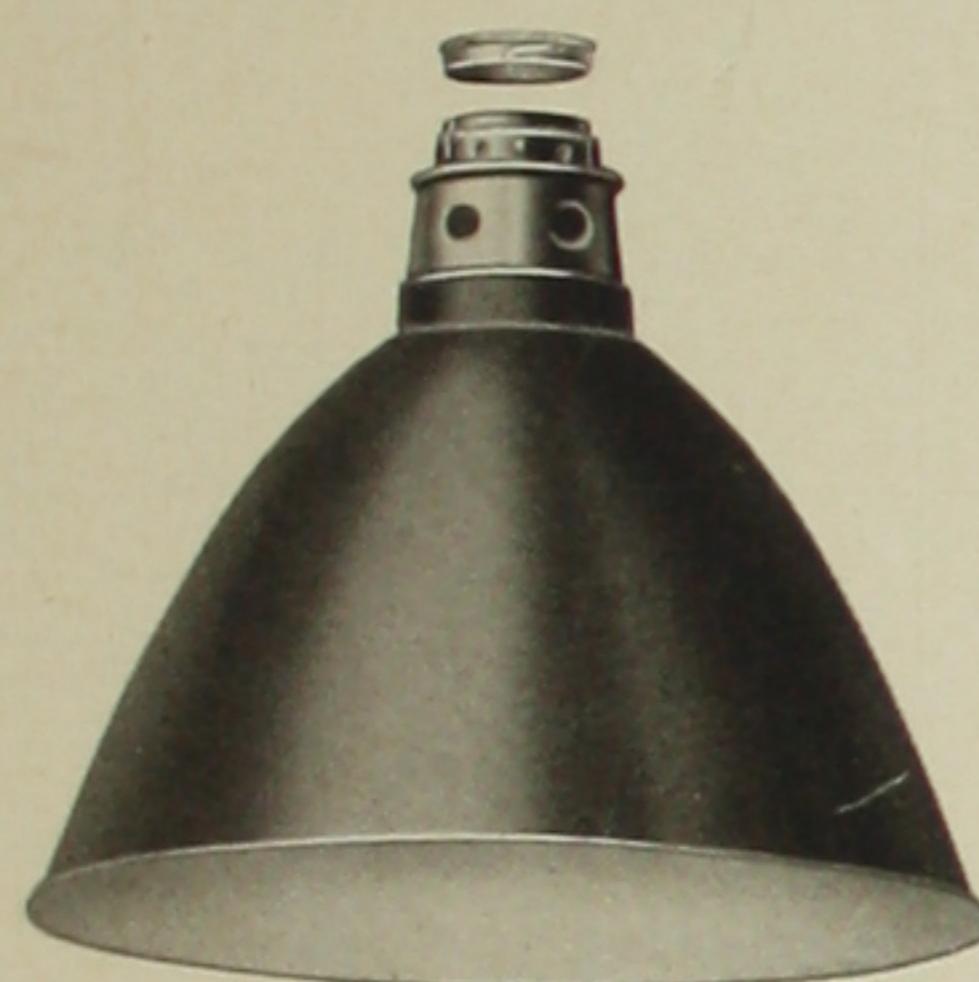
With Collars "C" to fit standard holders

Number	Diameter	Collar	Holder Int.	Holder Ext.	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PAC 40	7"	2 $\frac{1}{4}$ "	Deep	Flat	50	300	40	\$0.60
PAC 60	8"	2 $\frac{1}{4}$ "	Deep	Flat	50	200	45	.87
PAC100	9"	2 $\frac{1}{4}$ "	Deep	Flat	24	192	25	1.01

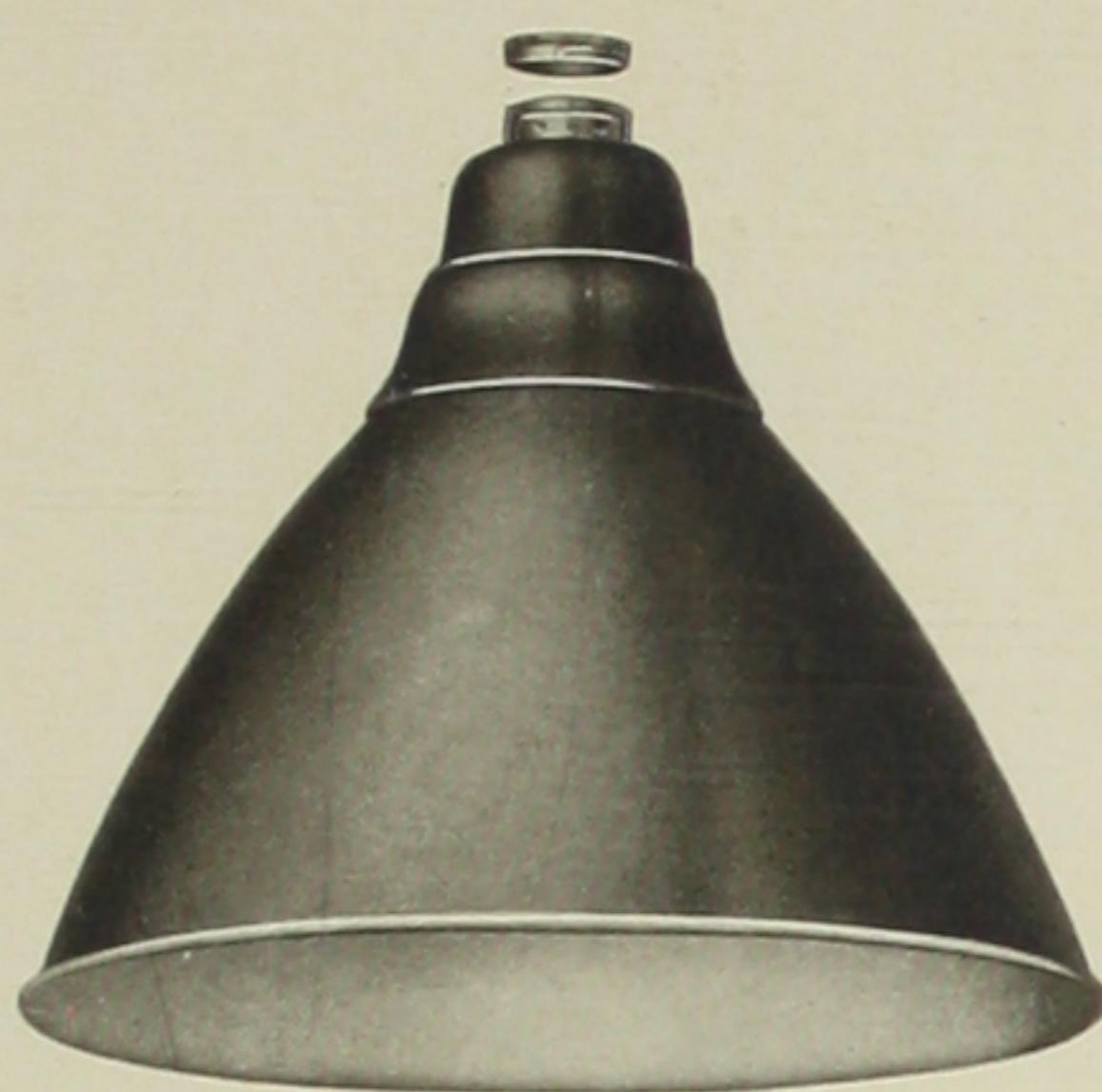
Prices of Reflectors with Collars do not include holders. For description and prices of holders and canopies, see page 19.



THE "P" GROUP—PARABOLIC
Porcelain Enameled and Paint Enameled Steel Reflectors
for Industrial Lighting



PEN and PAN—40-60-100

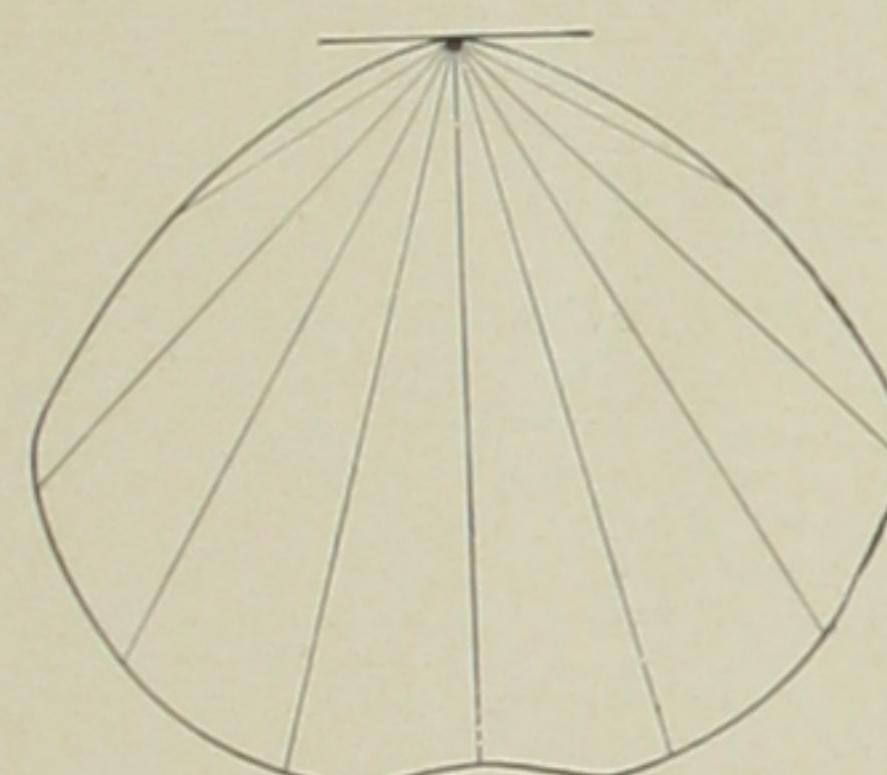


PEN and PAN—250

"P"—Group

"E"—Enamel

"A"—Aluminum

"N"—Wheeler "N" (Intensive)
Holder attached

"P"—Group

"E"—Enamel

"A"—Aluminum

"N"—Wheeler "N" (Intensive)
Holder attached

Characteristic Light Distribution—Intensive

Porcelain Enameled—Green Outside, White Reflecting Surface

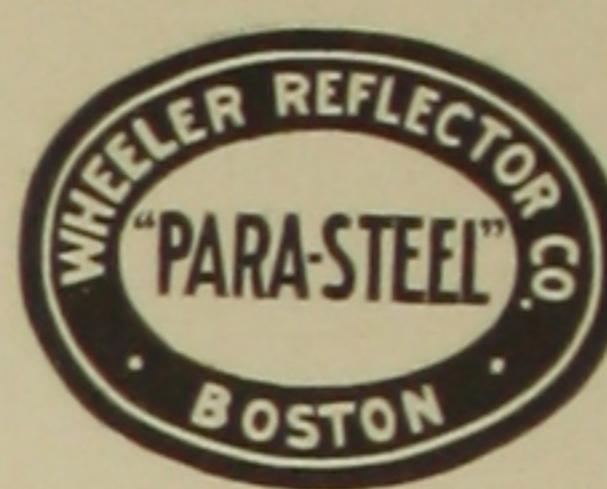
With Wheeler "N" Holders attached, to fit brass shell sockets

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PEN 40	7"	N	50	150	55	\$1.02
PEN 60	8"	N	50	150	60	1.25
PEN100	9"	N	24	120	35	1.44
PEN150	11"	N	24	72	45	2.89
PEN250	11"	N	12	60	40	3.12

Paint Enameled—Green Outside, Matte Aluminum Reflecting Surface

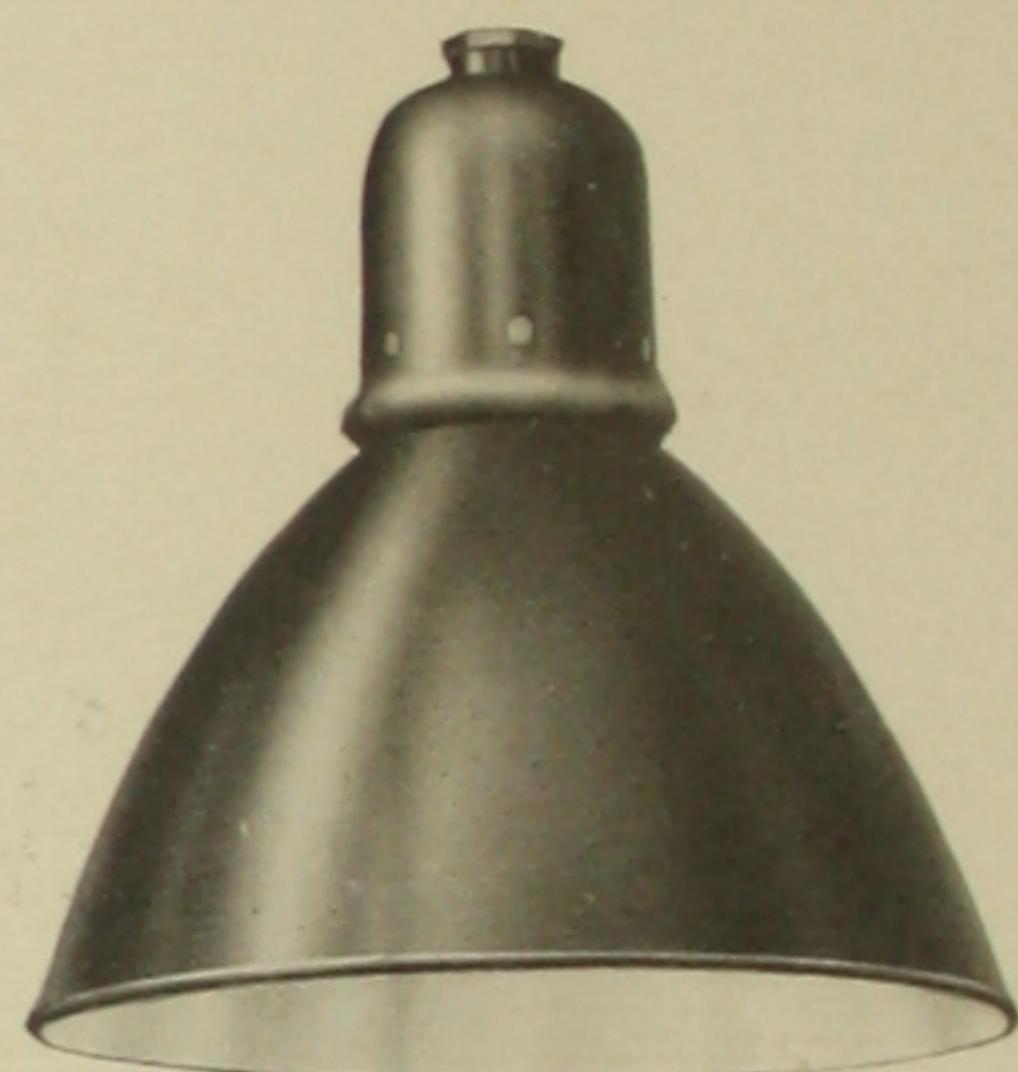
With Wheeler "N" Holders attached, to fit brass shell sockets

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PAN 40	7"	N	50	250	45	\$0.80 \$.66
PAN 60	8"	N	50	200	50	1.07 .88
PAN100	9"	N	24	144	25	1.21 1.08
PAN150	11"	N	24	72	35	2.39 2.04
PAN250	11"	N	12	72	40	2.62 2.20

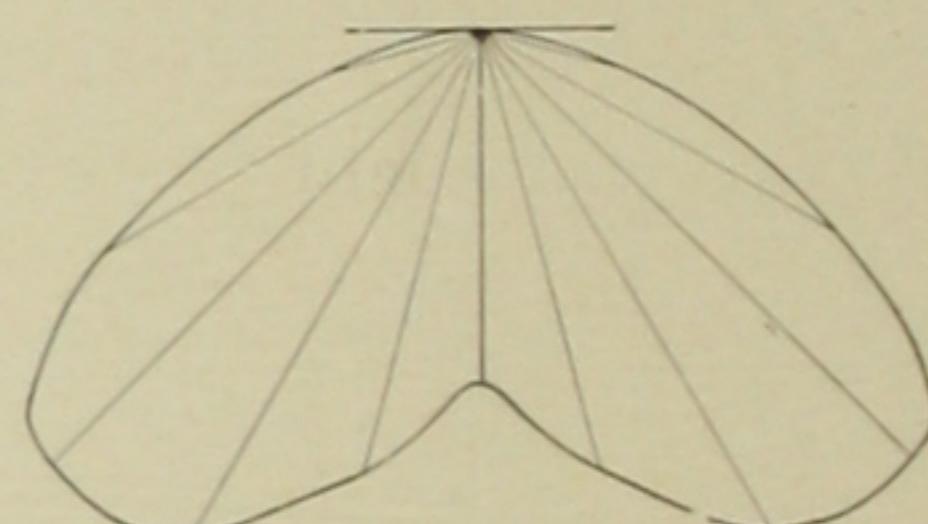


THE "P" GROUP—PARABOLIC

Porcelain Enameled and Paint Enameled Steel Reflectors
for Industrial Lighting



PES and PAS



"P"—Group

"E"—Enamel

"S"—Enameled Steel Canopy

"P"—Group

"A"—Aluminum

"S"—Enameled Steel Canopy

Characteristic Light Distribution—Extensive

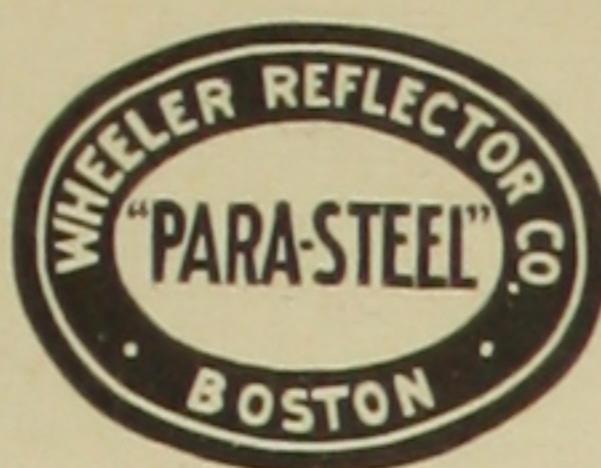
With Enameled Steel Canopy "S" permanently attached to Reflector and
with standard or large Edison base socket

Porcelain Enameled—Green Outside, White Reflecting Surface

Number	Diameter	Diameter canopy	Socket attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PES 40	7"	2 $\frac{1}{4}$ "	Std. Ed. base	25	125	75	\$1.62
PES 60	8"	2 $\frac{1}{4}$ "	Std. Ed. base	25	100	80	1.85
PES100	9"	2 $\frac{1}{4}$ "	Std. Ed. base	24	96	60	2.04
PES400	15"	3 $\frac{1}{4}$ "	Lge. Ed. base	8	40	60	4.30
PES500	15"	3 $\frac{1}{4}$ "	Lge. Ed. base	8	40	60	4.30

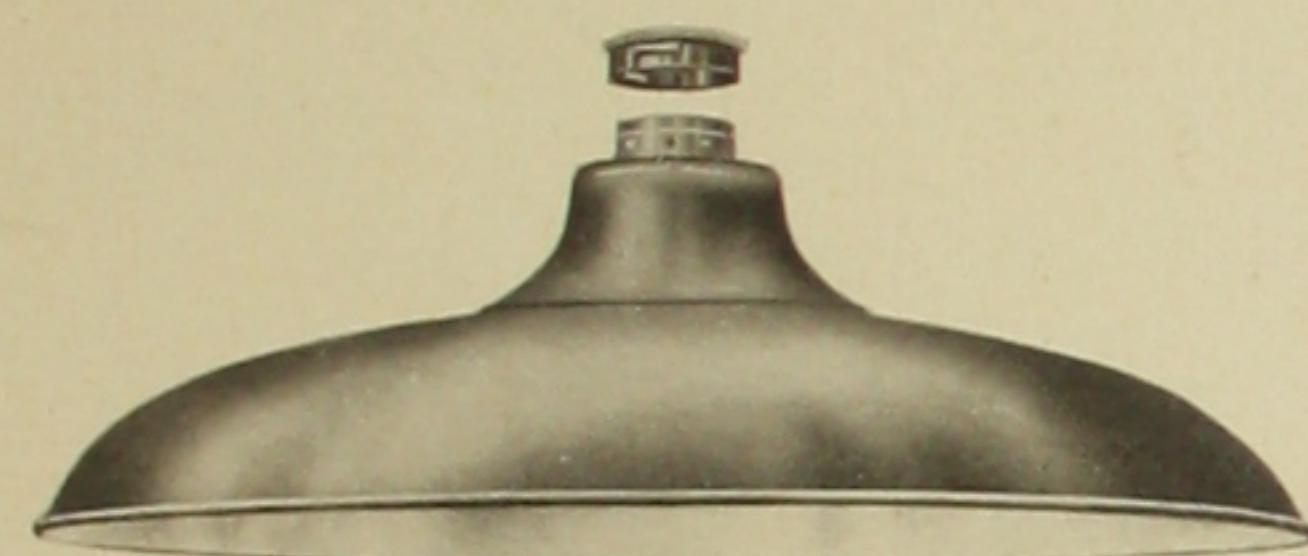
Paint Enameled—Green Outside, Matte Aluminum Reflecting Surface

Number	Diameter	Diameter canopy	Socket attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
PAS 40	7"	2 $\frac{1}{4}$ "	Std. Ed. base	25	150	45	\$1.30
PAS 60	8"	2 $\frac{1}{4}$ "	Std. Ed. base	25	125	50	1.57
PAS100	9"	2 $\frac{1}{4}$ "	Std. Ed. base	24	120	55	1.71

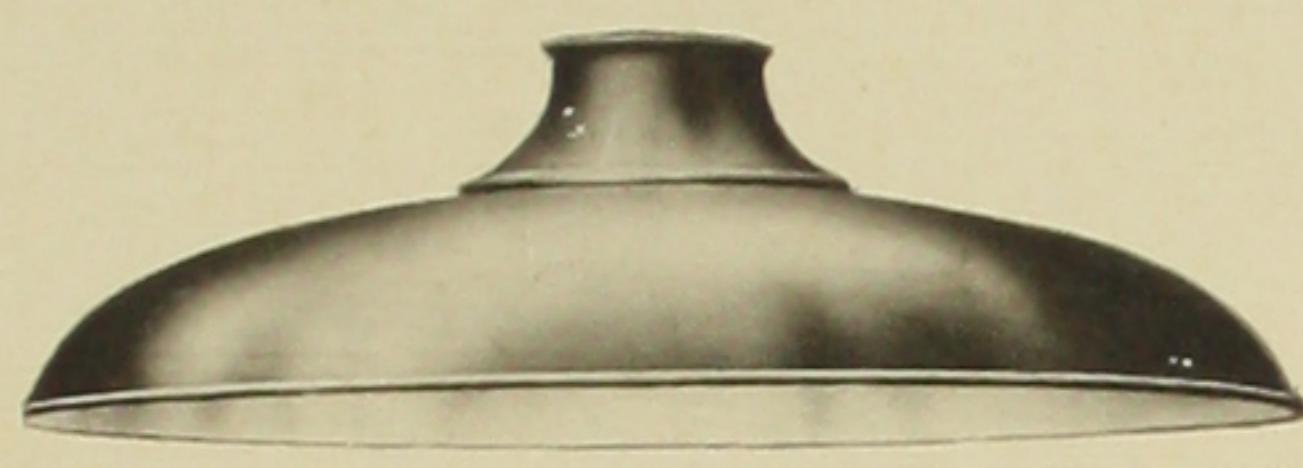


THE "D" GROUP—SHALLOW DOME

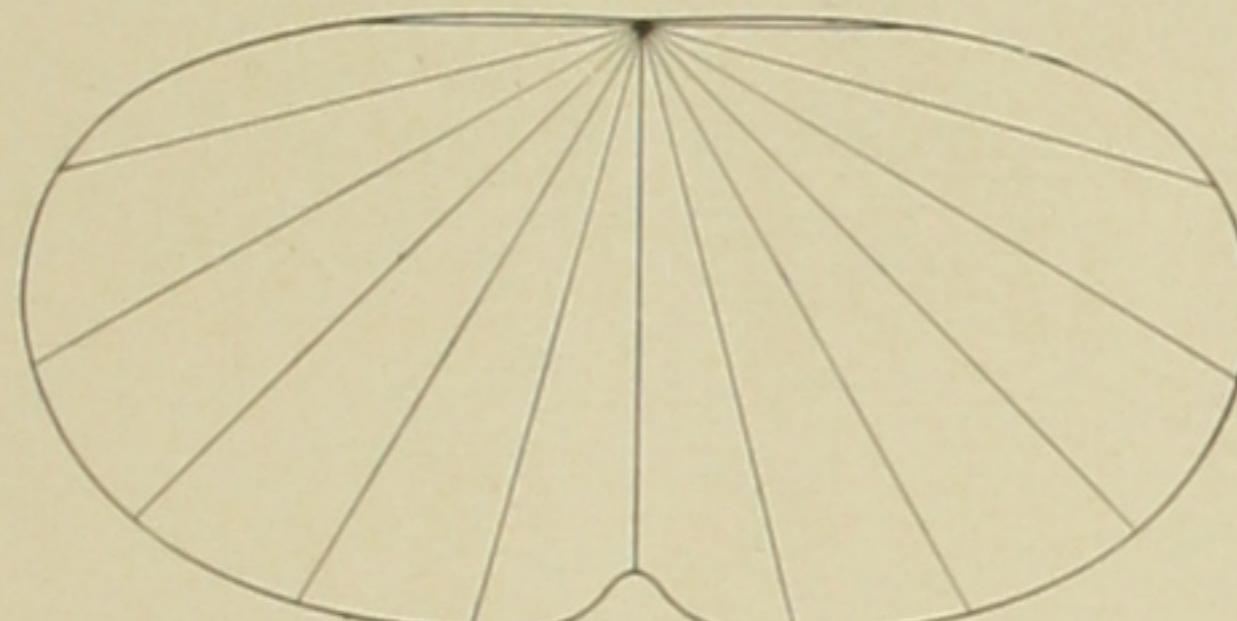
Porcelain Enameled Steel Reflectors for Industrial Lighting
Green Outside—White Reflecting Surface



DEX



DEC



Characteristic Light Distribution
Widely extensive, all below the horizontal

With Wheeler "X" Holders attached, to fit brass shell sockets

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
DEX 25	10"	X	25	225	40	\$0.82
DEX 40	12"	X	25	150	45	1.30
DEX 60	14"	X	25	100	80	1.70
DEX100	18"	X	24	72	105	2.50
DEX150	18"	X	24	72	155	2.50
DEX250	18"	X	12	72	70	2.50

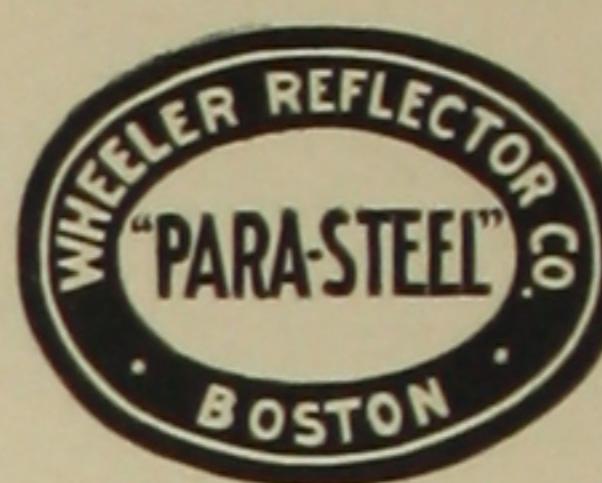
With Collars "C" to fit standard holders or Canopies "S" or "K"

Number	Diameter	Collar	Standard package	Standard quantity	Approx. wt. std. pkg.	List
DEC 25	10"	2 $\frac{1}{4}$ "	25	225	45	\$0.72
DEC 40	12"	2 $\frac{1}{4}$ "	25	150	50	1.20
DEC 60	14"	2 $\frac{1}{4}$ "	25	100	90	1.60
DEC100	18"	2 $\frac{1}{4}$ "	24	72	110	2.40
DEC150	18"	3 $\frac{1}{4}$ "	24	72	160	2.40
DEC250	18"	3 $\frac{1}{4}$ "	12	72	70	2.40
DEC400	20"	3 $\frac{1}{4}$ "	8	64	50	3.00
DEC500	20"	3 $\frac{1}{4}$ "	8	64	50	3.00

For DEC numbers, use standard 2 $\frac{1}{4}$ " or 3 $\frac{1}{4}$ " holders; Canopies "S" or "K," with standard or large Edison base sockets attached.

Prices of DEC numbers do **not** include holders.

For description and prices of holders and canopies, see page 19.



THE "F" GROUP—FLAT FLUTED
 Porcelain Enameled Steel Reflectors for Industrial Lighting
 Blue Outside—White Reflecting Surface

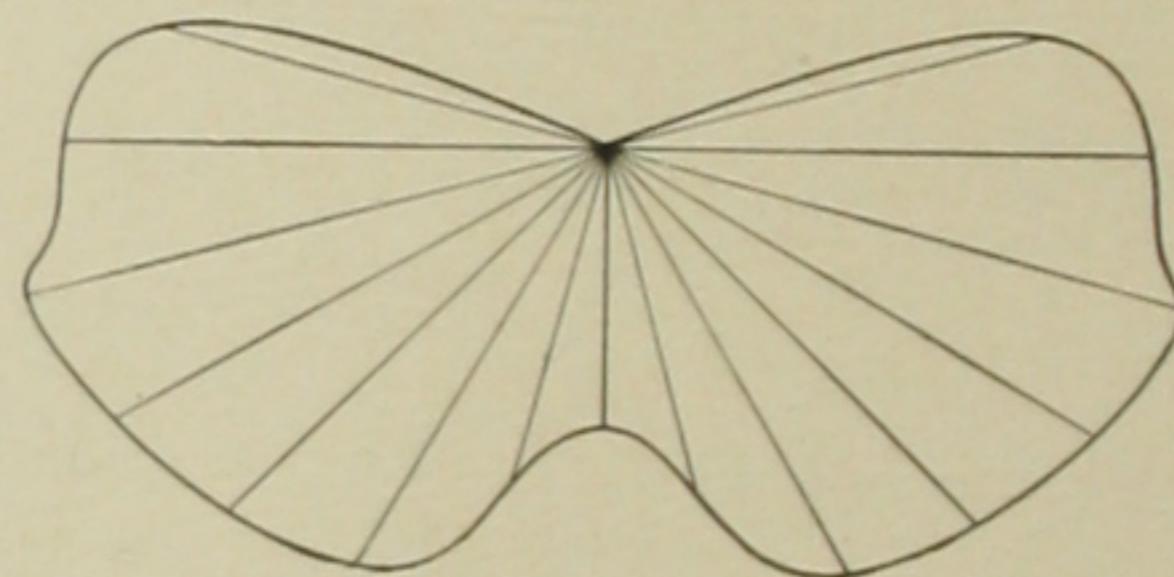


FEC

"F"—Group

"E"—Enamel

"C"—Collars to fit standard holders

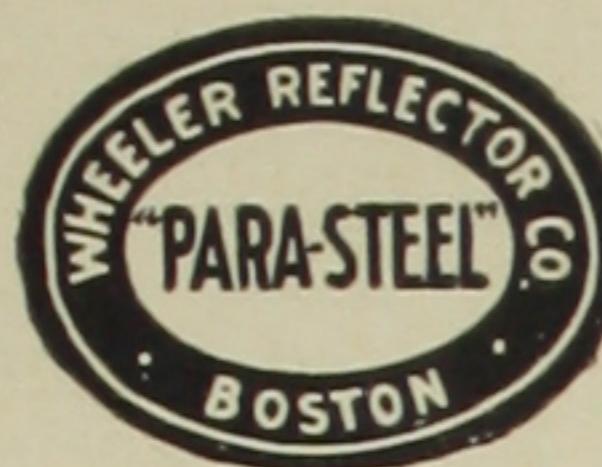


Characteristic Light Distribution—Widely extensive

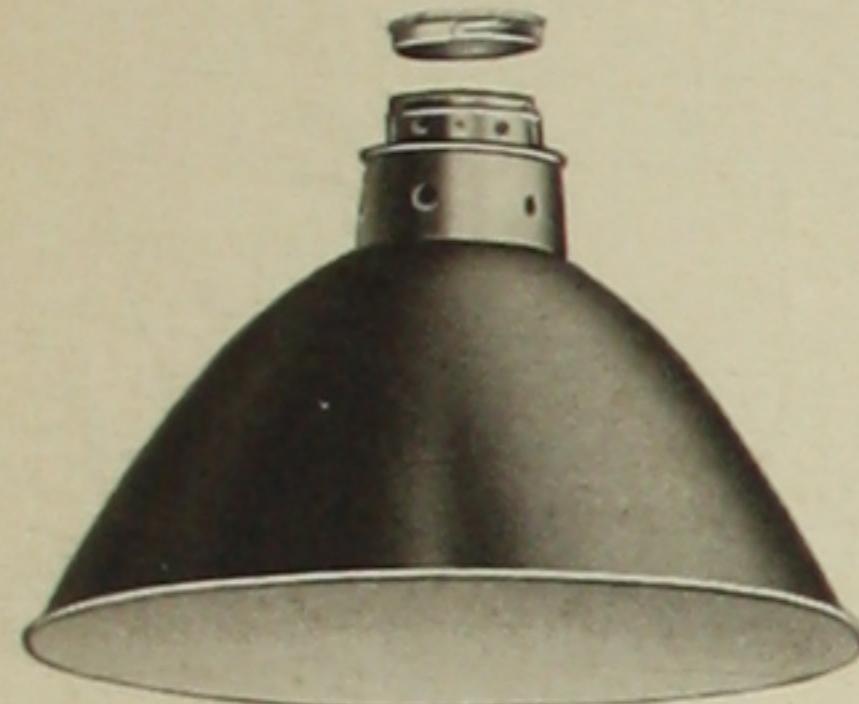
Number	Diameter	Collar	Holder	Standard package	Standard quantity	Approx. wt. std. pkg.	List
FEC 60	14"	2 $\frac{1}{4}$ "	Flat	25	100	75	\$1.95
FEC100	16"	2 $\frac{1}{4}$ "	Deep	24	96	100	2.10
FEC150	18"	3 $\frac{1}{4}$ "	Special F	24	72	130	2.40
FEC250	20"	3 $\frac{1}{4}$ "	Special F	12	72	75	2.70

For the above Reflectors, use standard 2 $\frac{1}{4}$ " or 3 $\frac{1}{4}$ " holders; Canopies "S" or "K," with standard or large Edison base sockets attached.

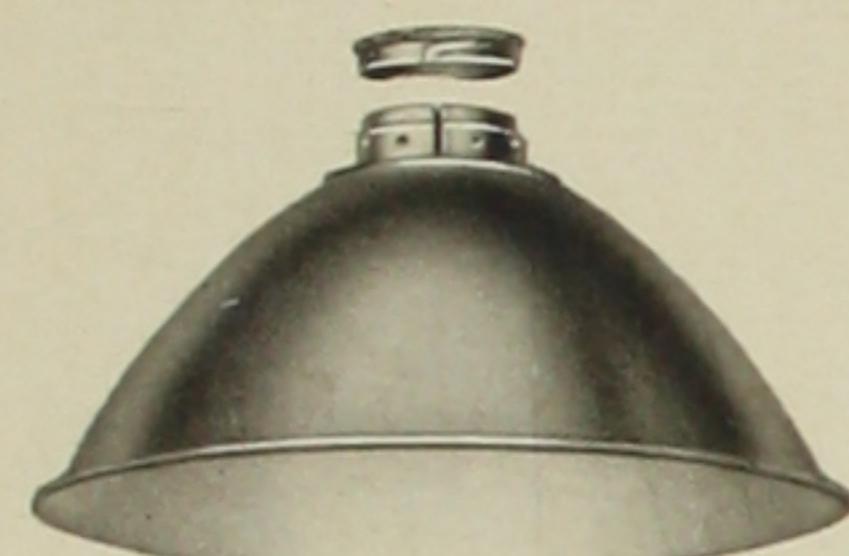
Above prices do **not** include Holders. For description and prices of Holders and Canopies, see page 19.



BOWL TYPE



No. 470 and 475
Intensive Holder



No. 490 and 495
Extensive Holder



No. 480
With Collar

PORCELAIN ENAMELED STEEL
Green Outside—White Reflecting Surface
With Wheeler Holders attached, to fit brass shell sockets.

Number	Diameter		Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
475	6 $\frac{1}{2}$ "	Bowl type	N	100	200	90	\$0.94
476	7"	" "	N	100	200	95	.98
477	8"	" "	N	100	200	100	1.16
478	8 $\frac{1}{2}$ "	" "	N	100	200	105	1.29
495	6 $\frac{1}{2}$ "	" "	X	100	200	90	.94
496	7"	" "	X	100	200	95	.98
497	8"	" "	X	100	200	100	1.16
498	8 $\frac{1}{2}$ "	" "	X	100	200	105	1.29

With 2 $\frac{1}{4}$ " Collars for use with standard holders

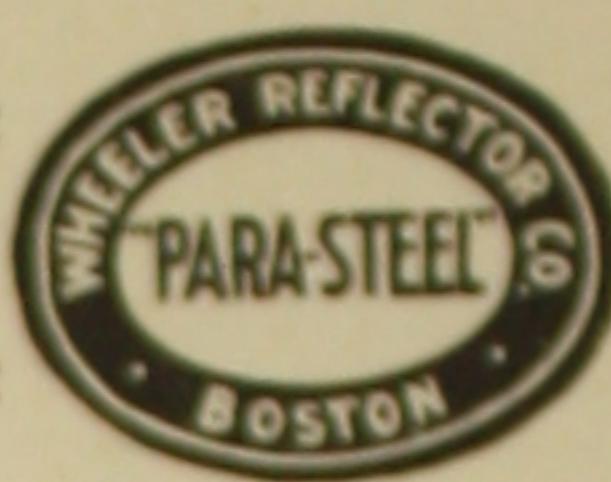
Number	Diameter		Holder required	Standard package	Standard quantity	Approx. wt. std. pkg.	List
480	6 $\frac{1}{2}$ "	Bowl type	2 $\frac{1}{4}$ "	100	300	90	\$0.84
481	7"	" "	2 $\frac{1}{4}$ "	100	300	95	.88
482	8"	" "	2 $\frac{1}{4}$ "	100	200	100	1.06
483	8 $\frac{1}{2}$ "	" "	2 $\frac{1}{4}$ "	100	200	105	1.19

PAINT ENAMELED STEEL

Green Outside—Matte Aluminum Reflecting Surface
With Wheeler Holders attached, to fit brass shell sockets

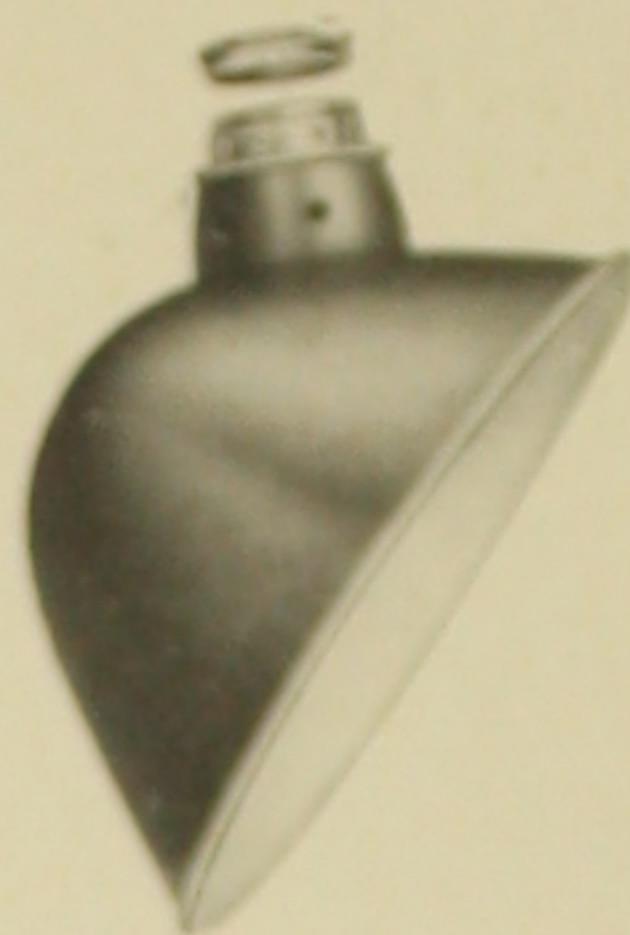
Number	Diameter		Holders attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
470	6 $\frac{1}{2}$ "	Bowl type	N	100	400	60	\$0.58
471	7"	" "	N	100	300	65	.62
472	8"	" "	N	100	300	70	.83
473	8 $\frac{1}{2}$ "	" "	N	100	200	75	.91
490	6 $\frac{1}{2}$ "	" "	X	100	400	60	.58
491	7"	" "	X	100	300	65	.62
492	8"	" "	X	100	300	70	.83
493	8 $\frac{1}{2}$ "	" "	X	100	200	75	.91

Prices of Reflectors with Collars do **not** include Holders. For description and prices of Holders, see page 19.



THE "N" GROUP—ANGLE

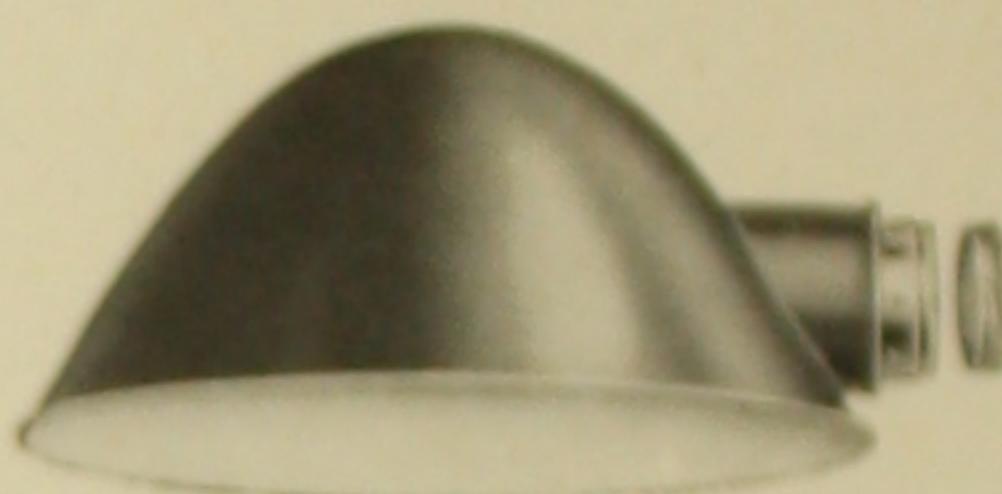
Porcelain Enameled and Paint Enameled Steel Reflectors
for Industrial Lighting



NEN

"N"—Group
"E"—Enamel

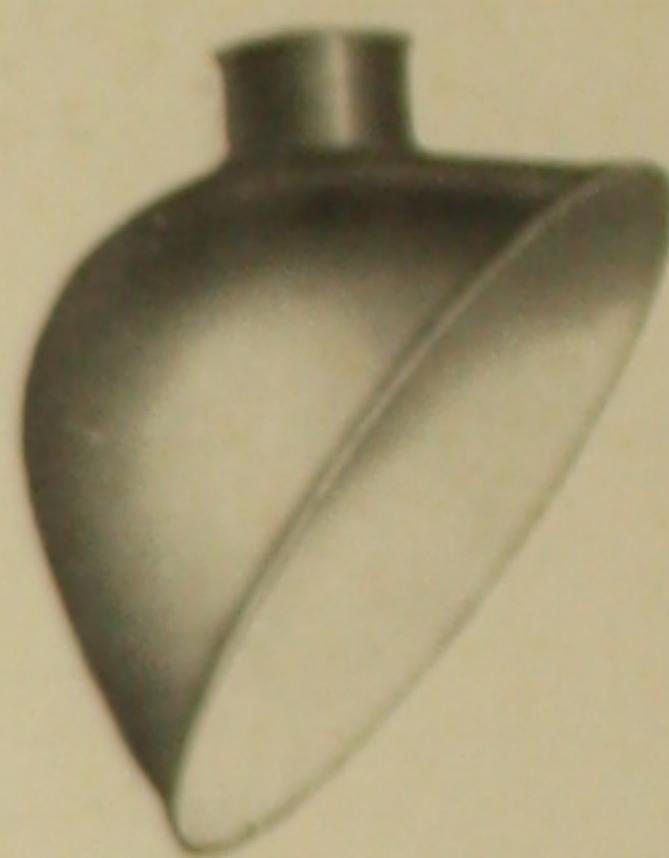
"N"—Wheeler "N" Holder attached



NAN-Horizontal

"N"—Group
"A"—Aluminum

"N"—Wheeler "N" Holder attached



NEC

"N"—Group
"E"—Enamel

"C"—Collar

Porcelain Enameled—Green Outside, White Reflecting Surface 45°

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
NEN 25	6½"	N	50	200	60	\$0.94
NEN 40	7"	N	50	200	65	.98
NEN 60	8"	N	50	200	70	1.16
NEN100	8½"	N	24	144	35	1.29

Number	Diameter	Collar	Holder required	Standard package	Standard quantity	Approx. wt. std. pkg.	List
NEC 25	6½"	2½"	Flat	50	200	60	\$0.84
NEC 40	7"	2½"	Flat	50	200	65	.88
NEC 60	8"	2½"	Flat	50	200	70	1.06
NEC100	8½"	2½"	Flat	24	144	35	1.19

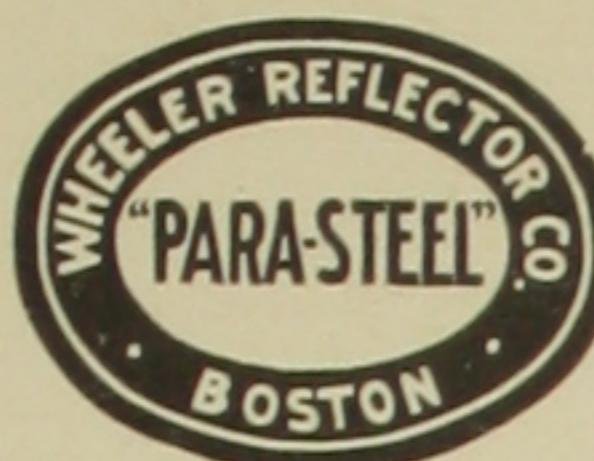
Paint Enameled—Green Outside, Matte Aluminum Reflecting Surface 45°

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
NAN 25	6½"	N	50	400	50	\$0.58
NAN 40	7"	N	50	300	55	.62
NAN 60	8"	N	50	300	65	.83
NAN100	8½"	N	24	192	30	.91

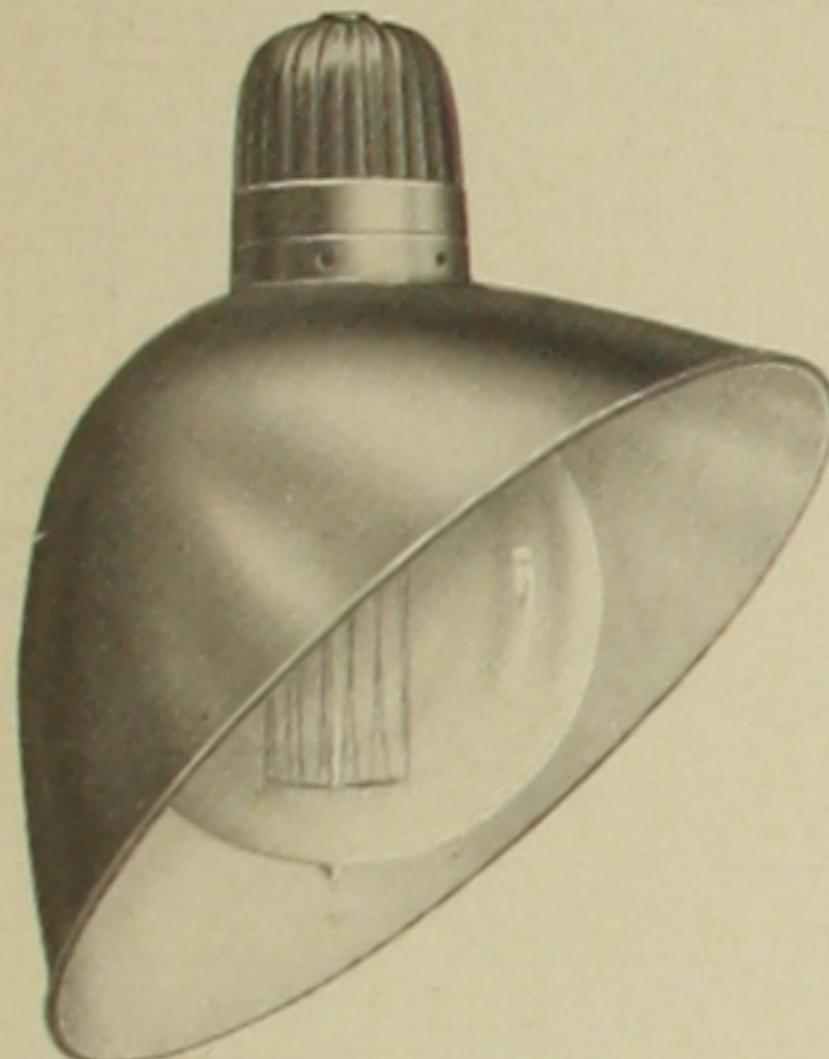
The above Reflectors are regularly furnished in the 45° angle; but can be supplied in the 15° and 30° angles at the same prices.

Prices of NEC numbers do not include holders. For NEC numbers, use any standard 2½" holder.

Number	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
NAN25-Horizontal	6½"	N	50	250	50	\$0.75
NAN40-Horizontal	7"	N	50	250	55	.80



ANGLE REFLECTORS for 60, 100, 150, 250, 400 and 500-watt Lamps

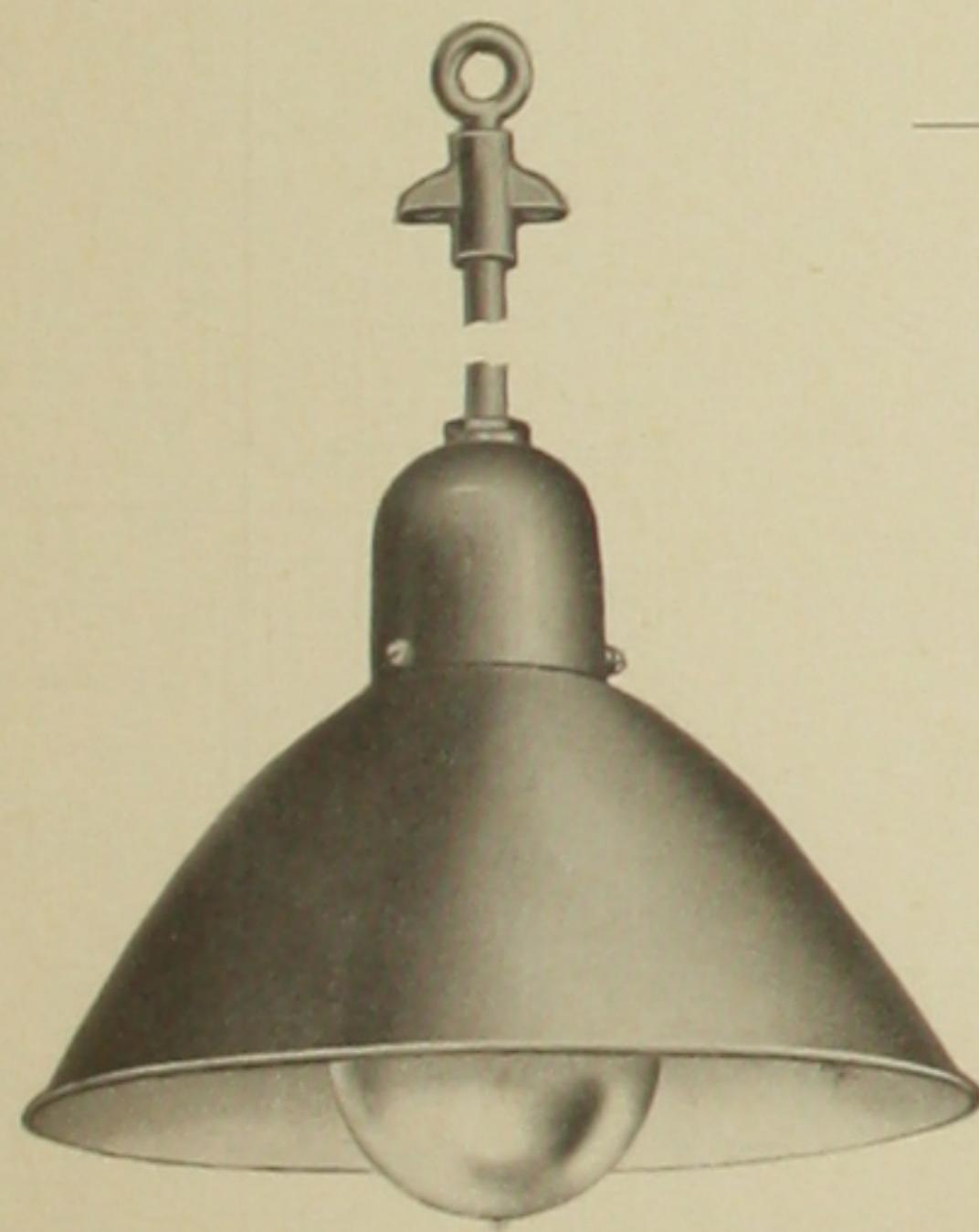


No. 2272

No.	Diameter Angle Reflector	Standard package	Standard quantity	Approx. wt. std. pkg.	List
2270	45° 11" Std. Edison base socket	6	60	60	\$3.20
2271	45° 15" " " "	6	42	75	4.65
2272	45° 15" Large " " "	6	36	75	5.20

Standard Iron Stem or Standard Iron Bracket (shown on page 19) should be used to support this Reflector.

Reflectors can be supplied in the 15° and 30° angles at the same price.

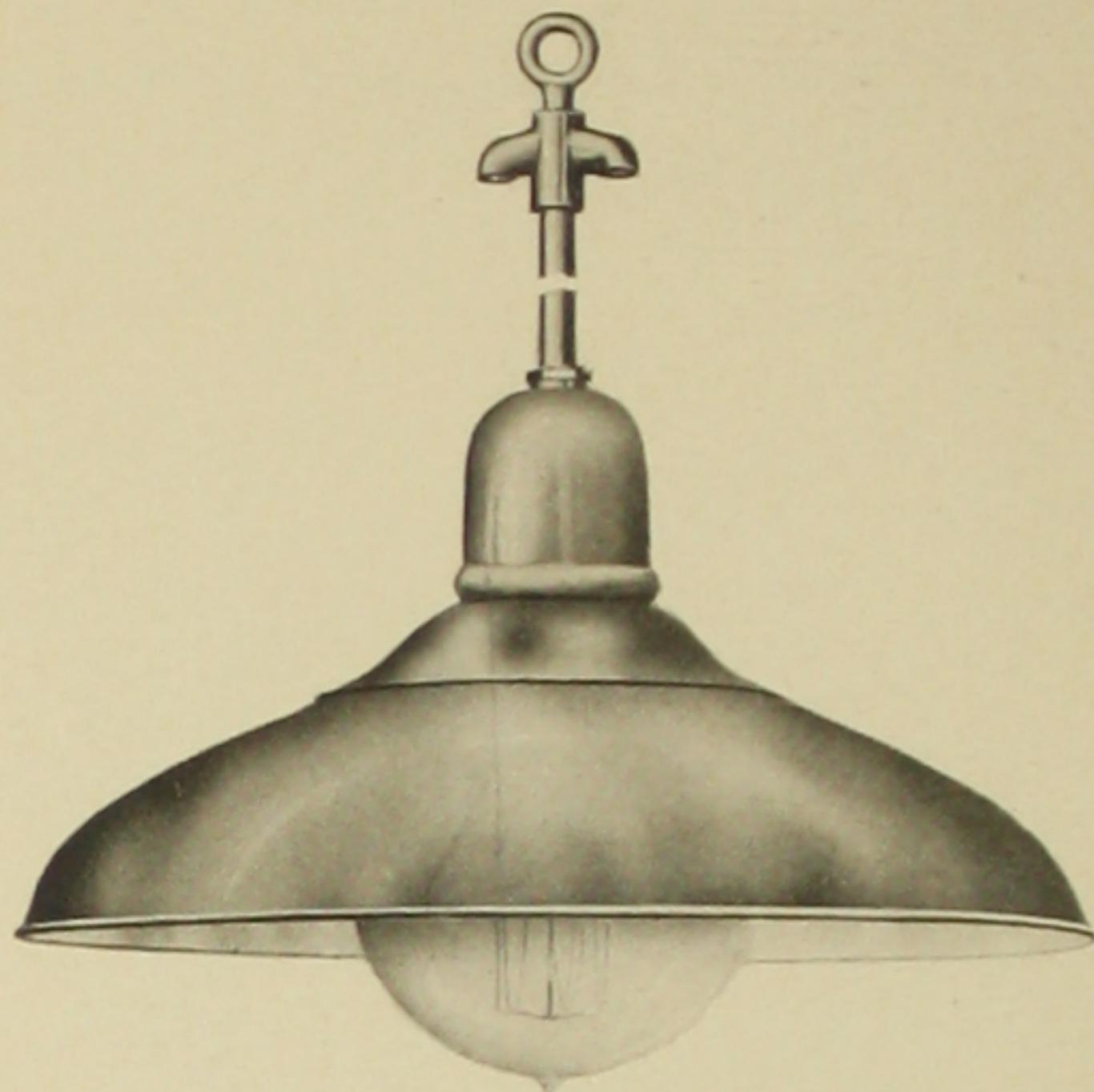
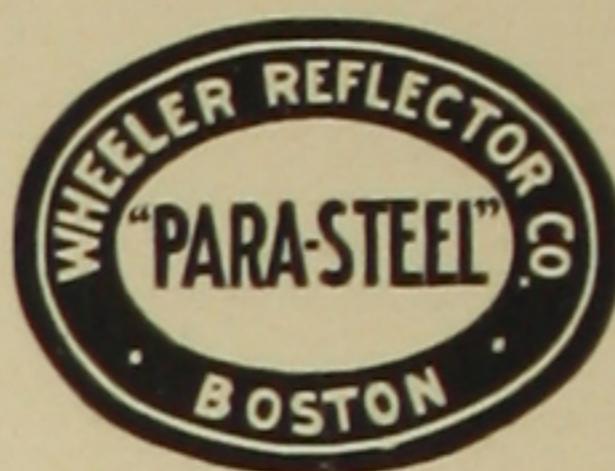


No. 2290

No.	Diameter Reflector	Std. pkg.	Std. qty.	Approx. wt. std. pkg.	List
2290	15" Std. Ed. Base Socket and Std. Iron Stem	6	42	60	\$4.83
2291	15" " " " 30" x 1/2" Iron Bracket	6	36	65	5.28
2292	15" " " " but without stem or bracket ..	6	42	50	4.30
2293	15" Lge. " " " and Std. Iron Stem	6	36	60	5.38
2294	15" " " " but without stem or bracket	6	42	50	4.85

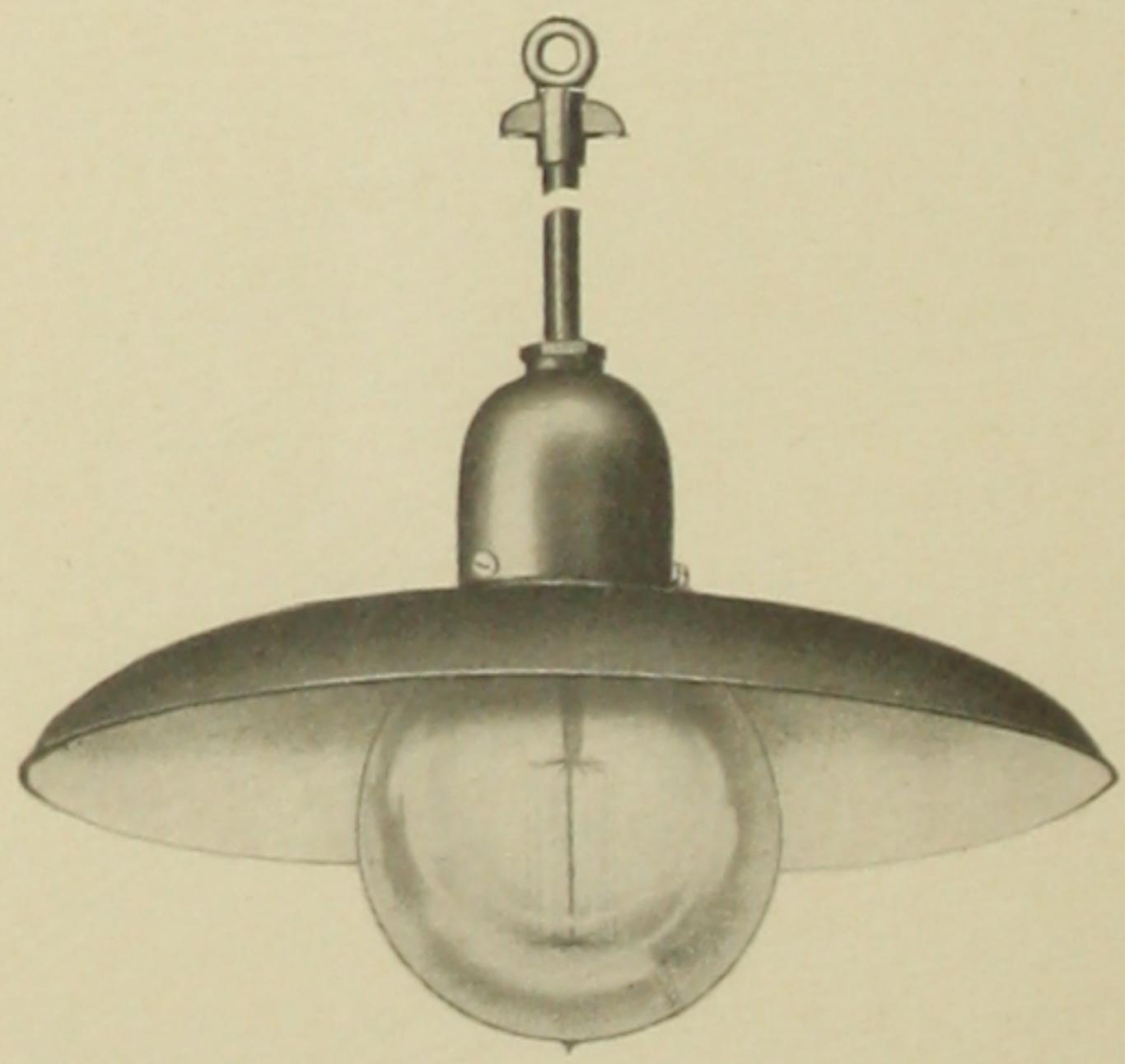
Prices are less wiring and lamps.

For description of Standard Stem, Standard Bracket and Canopy "S," see page 19.



No. 2257

Number	Diameter Reflector		Std. pkg.	Std. qty	Approx. wt. std. pkg.	List
2250	18"	Std. Ed. Base Socket and Std. Iron Stem.....	6	42	80	\$4.28
2251	18"	" " " " " 30" x 1/2" Iron Bracket	6	42	92	4.73
2252	18"	" " " " but without stem or bracket	6	48	74	3.75
2253	18" Lge.	" " " and Std. Iron Stem.....	6	42	80	4.83
2254	18" "	" " " but without stem or bracket	6	42	75	4.30
2255	20" Std.	" " " and Std. Iron Stem.....	6	42	100	4.43
2256	20" "	" " " but without stem or bracket	6	48	94	3.90
2257	20" Lge.	" " " and Std. Iron Stem.....	6	36	100	4.98
2258	20" "	" " " but without stem or bracket	6	42	94	4.45



No. 2237

No.	Diameter Reflector		Std. pkg.	Std. qty	Approx. wt. std. pkg.	List
2230	18" Std.	Ed. Base Socket and Std. Iron Stem.....	6	48	70	\$3.78
2231	18" "	" " " " 30" x 1/2" Iron Bracket	6	42	82	4.23
2232	18" "	" " " but without stem or bracket	6	54	64	3.25
2233	18" Lge.	" " " and Std. Iron Stem.....	6	42	70	4.33
2234	18" "	" " " but without stem or bracket	6	48	64	3.80
2235	20" Std.	" " " and Std. Iron Stem.....	6	42	90	4.38
2236	20" "	" " " but without stem or bracket	6	48	84	3.85
2237	20" Lge.	" " " and Std. Iron Stem.....	6	42	90	4.93
2238	20" "	" " " but without stem or bracket	6	42	84	4.40

MAZDA ARC FIXTURES.

For Mill and Factory Lighting with 250
400 and 500-watt Mazda Lamps

Fixtures No. 2250-2258 consist of a Group "W" Porcelain Enameled Steel Reflector, with 3 $\frac{1}{4}$ " Enameled Steel Canopy "S" permanently attached to Reflector and fitted for $\frac{3}{8}$ " or $\frac{1}{2}$ " iron pipe. Standard or large Edison base socket. Weatherproof.

May be used with Standard Iron Stem as shown, hung from a rigid stem of $\frac{3}{8}$ " or $\frac{1}{2}$ " pipe or conduit, or with Standard 30" x $\frac{1}{2}$ " Iron Bracket.

For description of Standard Stem, Standard Bracket and Canopy "S," see page 19.

Prices are less wiring and lamps

Fixtures No. 2230-2238

consist of a Group "D" Porcelain Enameled Steel Reflector, with 3 $\frac{1}{4}$ " Enameled Steel Canopy "S" fitted for $\frac{3}{8}$ " or $\frac{1}{2}$ " iron pipe. Standard or large Edison base socket. Weatherproof.

May be used with Standard Iron Stem as shown, hung from a rigid stem of $\frac{3}{8}$ " or $\frac{1}{2}$ " pipe or conduit, or with Standard 30" x $\frac{1}{2}$ " Iron Bracket.

For description of Standard Stem, Standard Bracket and Canopy "S," see page 19.

Prices are less wiring and lamps

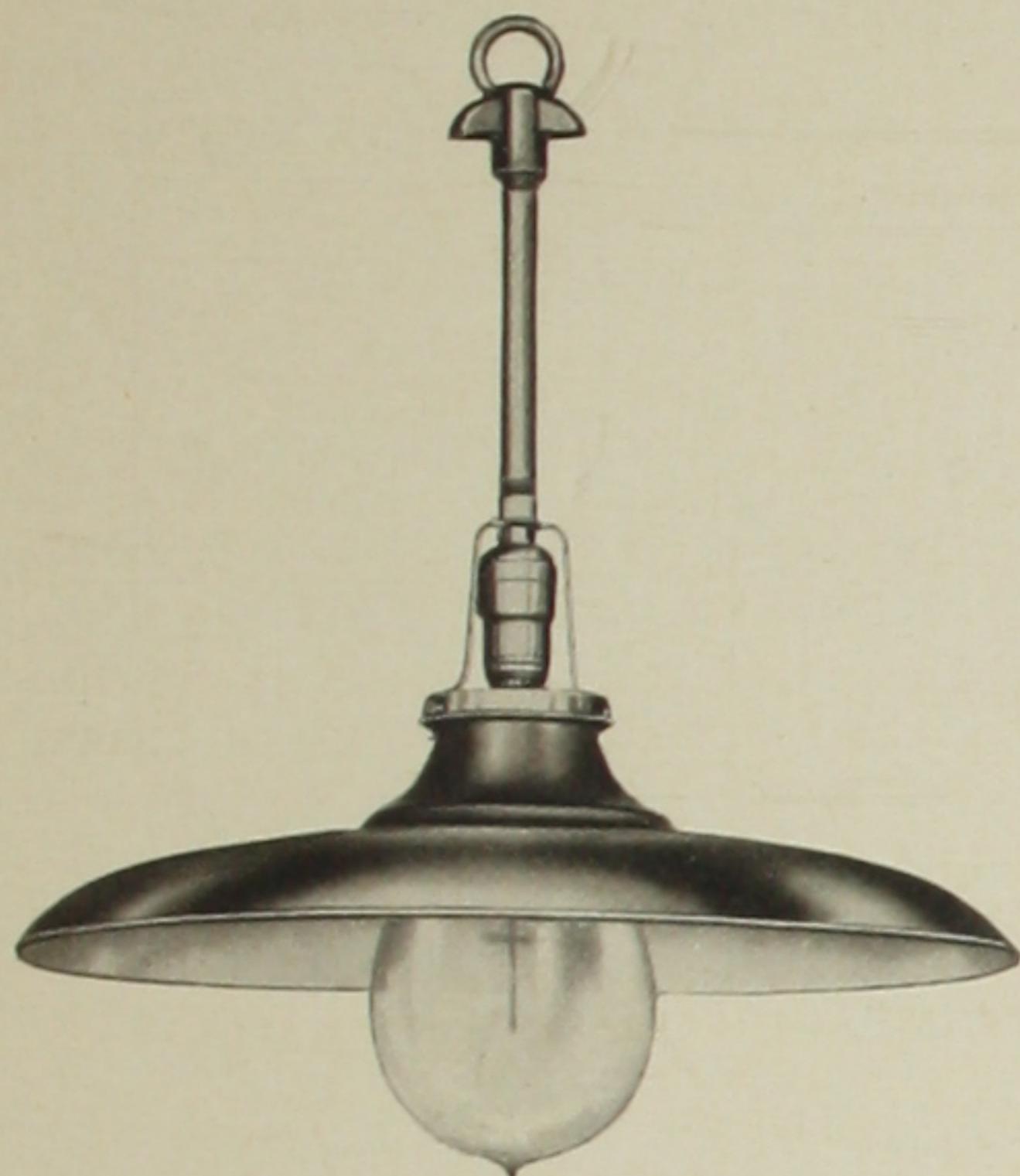
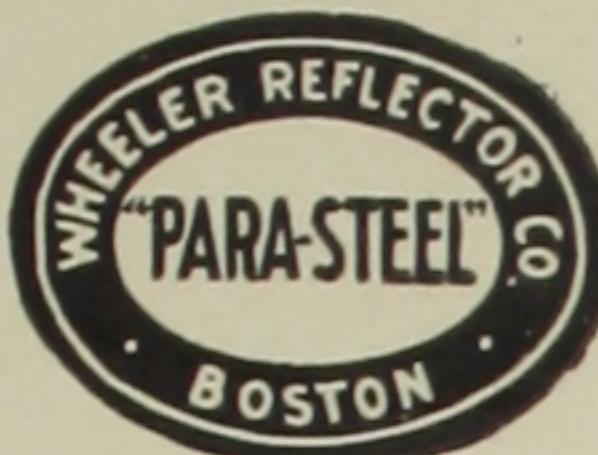
Fixtures No. 2250-2258

consist of a Group "W" Porcelain Enameled Steel Reflector, with 3 $\frac{1}{4}$ " Enameled Steel Canopy "S" permanently attached to Reflector and fitted for $\frac{3}{8}$ " or $\frac{1}{2}$ " iron pipe. Standard or large Edison base socket. Weatherproof.

May be used with Standard Iron Stem as shown, hung from a rigid stem of $\frac{3}{8}$ " or $\frac{1}{2}$ " pipe or conduit, or with Standard 30" x $\frac{1}{2}$ " Iron Bracket.

For description of Standard Stem, Standard Bracket and Canopy "S," see page 19.

Prices are less wiring and lamps

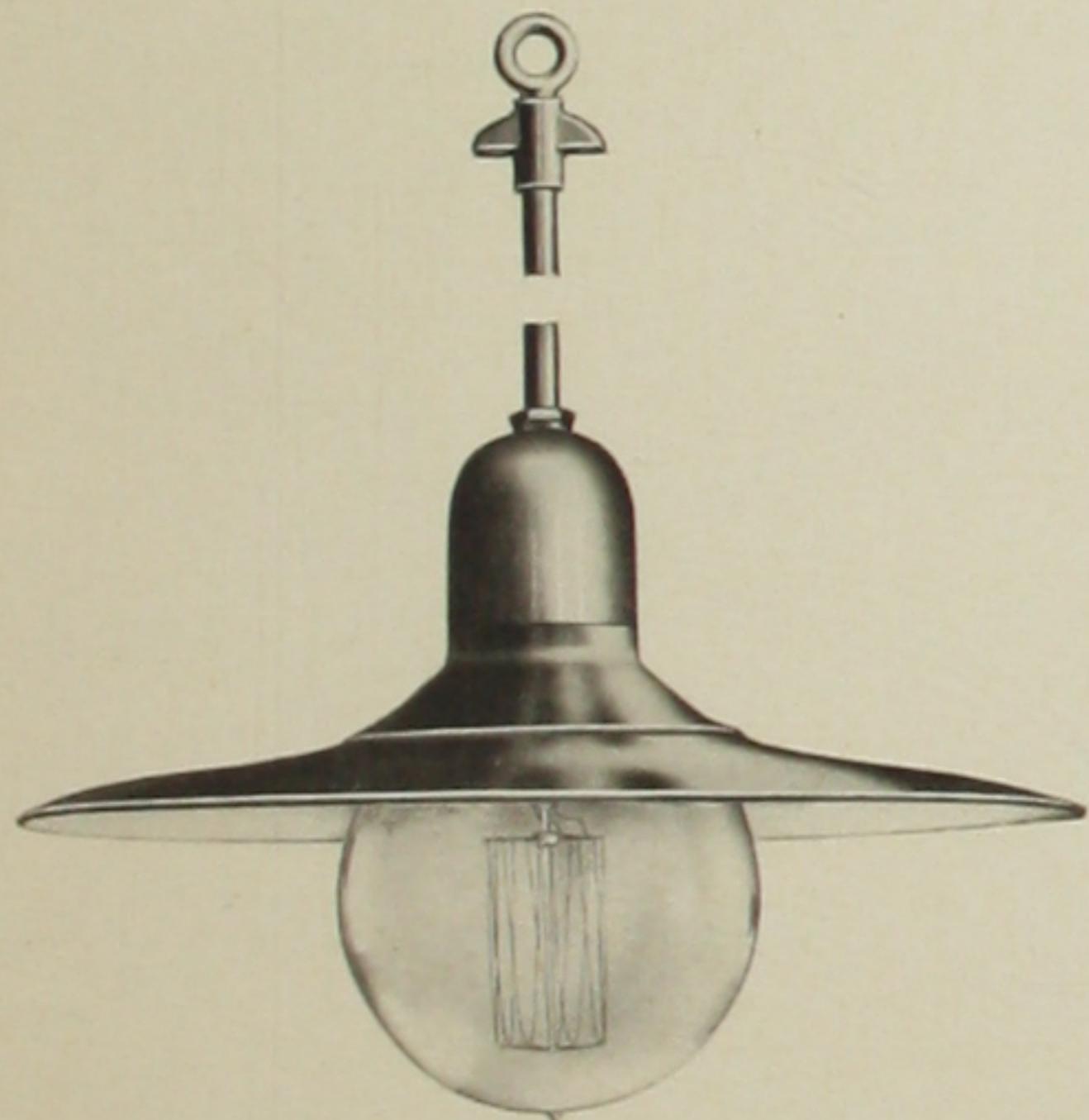


No. 2211

Number

2210. With Standard Brass Stem
2211. " " Iron Stem as shown
2212. " " without stem

	Standard package	Standard quantity	Approx. wt. std.pkg.	List
2210. With Standard Brass Stem	6	48	65	\$4.16
2211. " " Iron Stem as shown	6	54	65	3.41
2212. " " without stem	6	66	60	2.88



No. 2263

Number

	Std. pkg.	Std. qty.	Approx. wt. std. pkg.	List
2260. With Std. Ed. Base Socket and Std. Iron Stem	6	42	70	\$4.38
2261. " " " " " " 30" x 1/2" Iron Bracket	6	42	82	4.83
2262. " " " " " but without stem or bracket	6	48	64	3.85
2263. " Lge. " " " and Std. Iron Stem	6	42	70	4.93
2264. " " " " " 30" x 1/2" Iron Bracket	6	36	82	5.38
2265. " " " " " but without stem or bracket	6	42	64	4.40

MAZDA ARC FIXTURES

For Mill and Factory Lighting with 250-watt Multiple Lamps

Fixtures No. 2210-2212 consist of a Group "D" 18" Porcelain Enameled Steel Reflector, with 3 $\frac{1}{4}$ " Holder "D" tapped for $\frac{3}{8}$ " stem.

Use any standard Edison base $\frac{3}{8}$ " Keyless Socket.

Canopies "S" and "K" may also be used with the above fixtures in place of Holder "D." For description of Standard Fittings, see page 19.

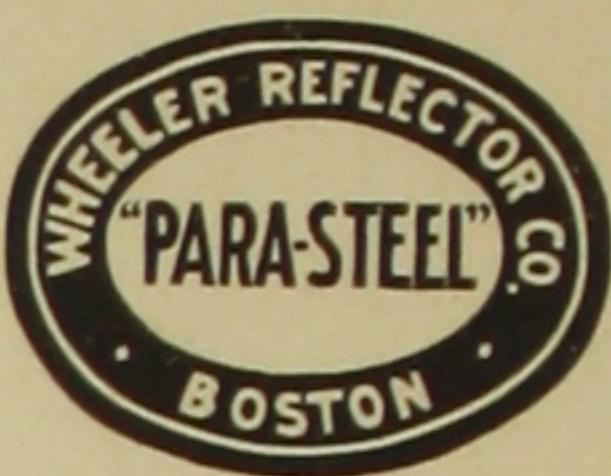
Prices are less sockets, wiring and lamps

For 250, 400 and 500-watt
Mazda Lamps

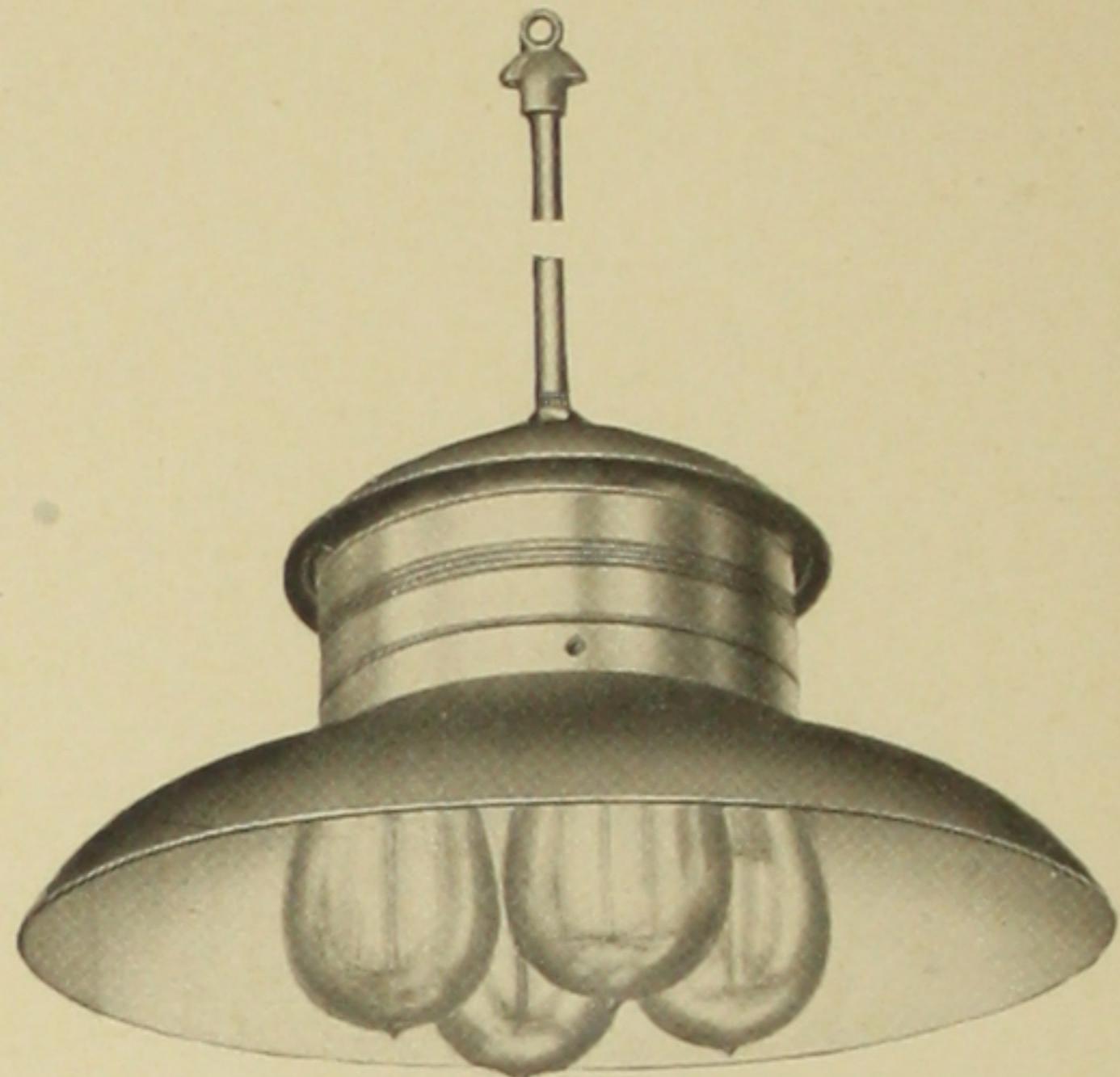
Fixtures No. 2260-2265 consist of a 20 $\frac{1}{2}$ " Porcelain Enameled Steel Reflector, with 3 $\frac{1}{4}$ " Enameled Steel Canopy "S" permanently attached to the Reflector and fitted for $\frac{3}{8}$ " or $\frac{1}{2}$ " iron pipe. Standard or large Edison base socket. Weatherproof.

For description of Standard Stem, Standard Bracket and Canopy "S," see page 19.

Prices are less wiring and lamps



Mazda Arc Fixtures for Mill and Factory Lighting with 150 or 250-watt Mazda Lamps



No. 2080

Fixtures No. 2080-2083 consist of a 24" Porcelain Enameled Steel Reflector, with Hood. Blue outside, white reflecting surface. Standard Heavy Iron Stem, 18" x $\frac{3}{4}$ ".

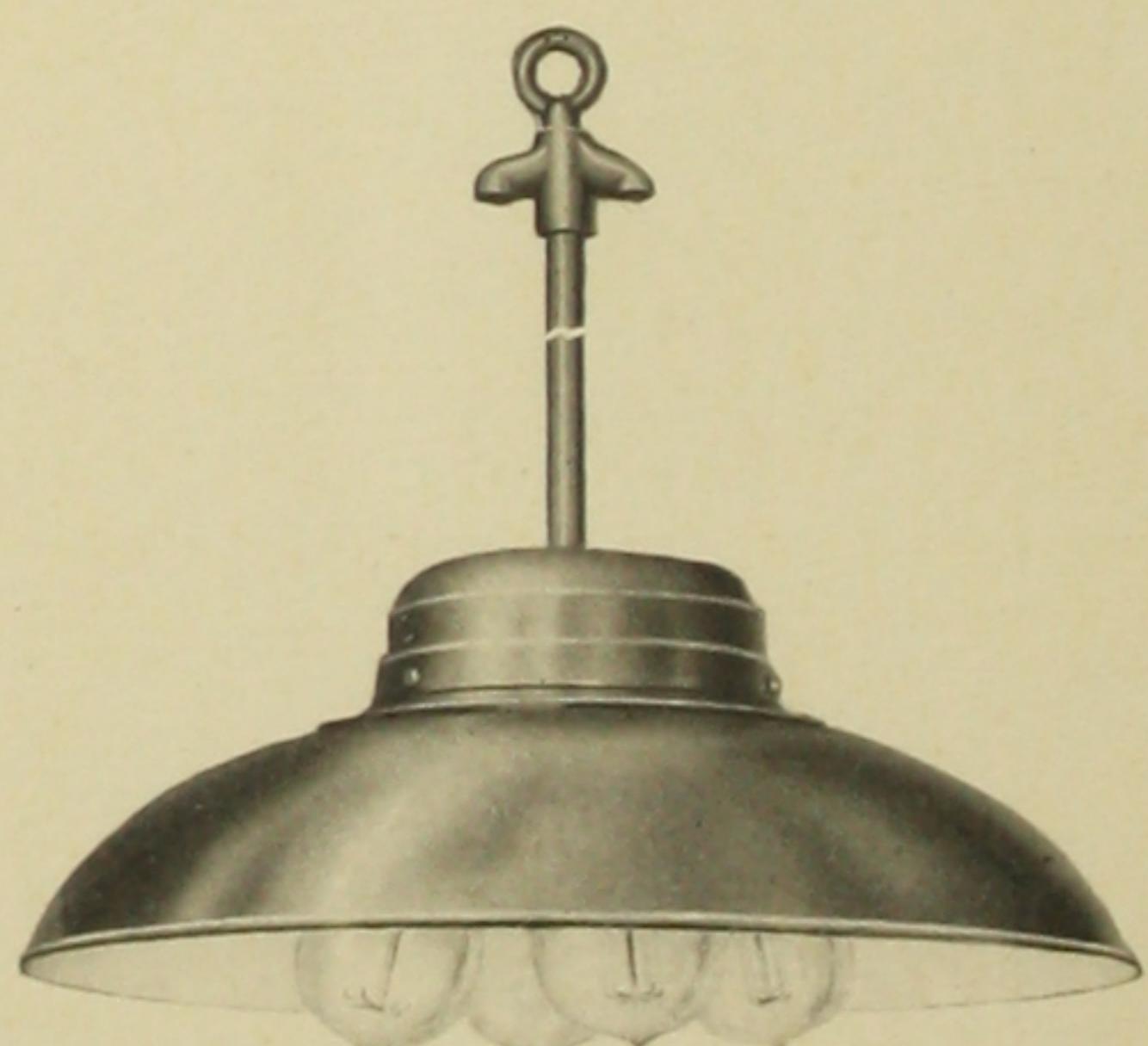
Fixtures wired, with sockets for standard or large Edison base attached. In ordering, specify whether to be wired in Multiple with Standard Edison base sockets, or in Series with large Edison base sockets.

Note:—Fixtures wired in Multiple, unless otherwise specified.

For description of Standard Stems, see page 19.

Prices are less lamps

	Std. pkg.	Std. qty.	Approx. wt. std. pkg.	List
2080. 4 lt. with large Ed. base sockets, Std. Iron Stem as shown	6	12	150	\$16.75
2081. 4 lt. " " " " without Stem	6	12	140	15.62
2082. 4 lt. " std. " " Std. Iron Stem	6	12	150	16.20
2083. 4 lt. " " " " without Stem	6	12	140	15.07



No. 2036

For 40, 60 or 100-watt Mazda Lamps

Fixtures No. 2035-2040 consist of an 18" Porcelain Enameled Steel Reflector and Socket Suspension Plate in one piece, with Enameled Steel Hood. Blue outside, white reflecting surface. Standard Iron Stem, 12" x $\frac{3}{8}$ ".

Fixtures wired, with standard Edison base sockets attached. In ordering, specify whether to be wired in Multiple, or Series.

Note:—Fixtures wired in Multiple, unless otherwise specified.

For description of Standard Stem, see page 19.

Prices are less lamps.

Number	Std. pkg.	Std. qty.	Approx. wt. std. pkg.	List
2035. 3 lt. with Standard Iron Stem	6	36	85	\$5.20
2036. 4 lt. " " " "	6	36	85	5.50
2037. 5 lt. " " " "	6	30	85	5.80
2038. 3 lt. without " " "	6	42	80	4.67
2039. 4 lt. " " " "	6	36	80	4.97
2040. 5 lt. " " " "	6	36	80	5.27



No. 2064

Number	Description
2060	3 ft. with Standard Brass Stem
2061	4 ft.
2062	5 ft.
2063	3 ft. Iron
2064	4 ft. Iron
2065	5 ft. Iron
2066	3 ft. without Stem
2067	4 ft.
2068	5 ft.

MAZDA ARC FIXTURES For Mill and Factory Lighting, with 40, 60 or 100-watt Mazda Lamps

Fixtures No. 2060-2068 consist of a 200² Painted Enamel Steel Reflector, Diffuser and Hood. Blue outside, white reflecting surface. Standard Iron Stem, as shown, or Standard Brass Stem.

Fixture wired and with standard Edison base sockets attached. In ordering, specify whether to be wired in Multiple, or Series.

Note.—Fixture wired in Multiple, unless otherwise specified.

For description of Standard Stems, see page 19.

Prices are less lamps

Standard package	Standard quantity	Average wt. std. pkg.	List
6	30	60	\$7.20
6	30	60	7.80
6	30	60	8.40
6	30	60	9.50
6	30	60	10.10
6	30	60	10.70
6	30	60	11.30
6	30	60	12.00
6	30	60	12.70
6	30	60	13.30
6	30	60	14.00
6	30	60	14.70



No. 2074

Number	Description
2070	3 ft. with Standard Brass Stem
2071	4 ft.
2072	5 ft.
2073	3 ft. Iron
2074	4 ft. Iron
2075	5 ft. Iron
2076	3 ft. without Stem
2077	4 ft.
2078	5 ft.

Fixtures No. 2070-2078 are identical with the above, except that the Diffuser is omitted.

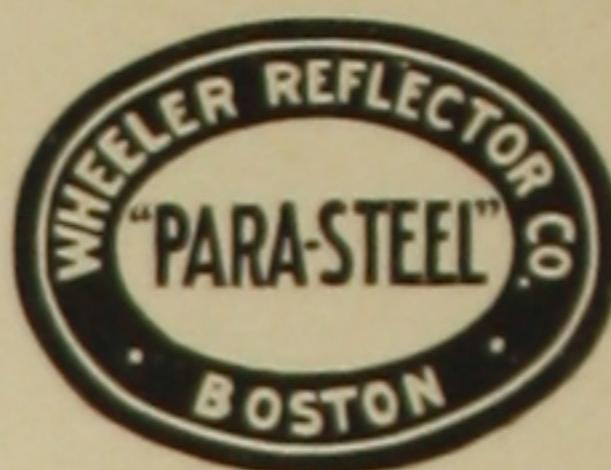
Fixture wired and with standard Edison base sockets attached. In ordering, specify whether to be wired in Multiple, or Series.

Note.—Fixture wired in Multiple, unless otherwise specified.

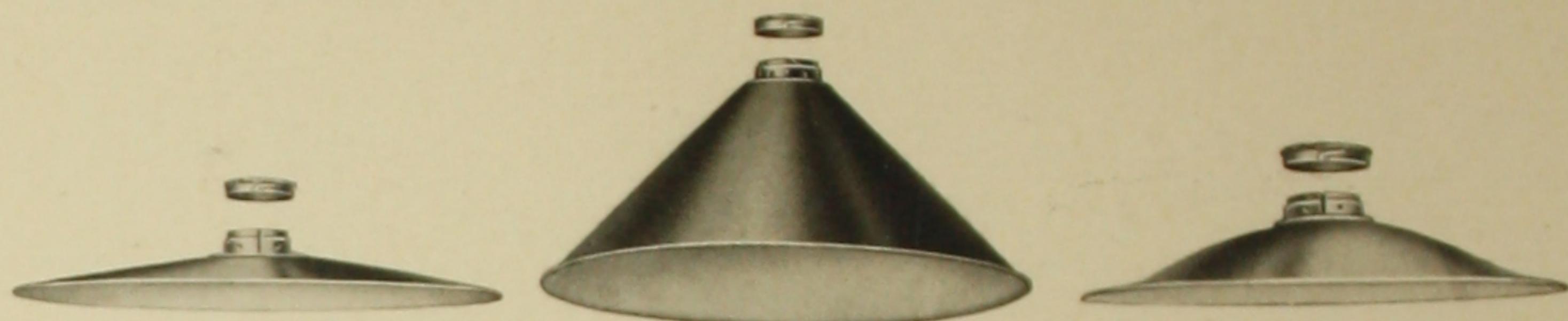
For description of Standard Stems, see page 19.

Prices are less lamps

Standard package	Standard quantity	Average wt. std. pkg.	List
6	30	60	\$6.90
6	30	60	7.50
6	30	60	8.10
6	30	60	8.80
6	30	60	9.40
6	30	60	10.00
6	30	60	10.60
6	30	60	11.20
6	30	60	11.80
6	30	60	12.40
6	30	60	13.00
6	30	60	13.60



FLAT, CONE and SHALLOW BELL



PORCELAIN ENAMELED
Green Outside—White Reflecting Surface

With Wheeler "X" Holders attached, to fit brass shell sockets

Number	Style	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
455	Cone	8"	X	100	300	90	\$0.73
456	"	10"	X	100	200	105	.95
457	Flat	8"	X	100	400	65	.47
458	"	10"	X	100	300	80	.68
460	Shallow Bell	10"	X	100	300	105	.78
461	" "	12"	X	100	200	125	1.05

PAINT ENAMELED
Green Outside—Matte Aluminum Reflecting Surface

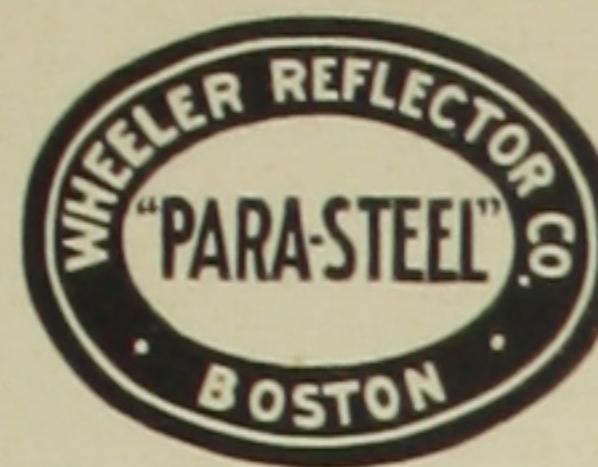
With Wheeler "X" Holders attached, to fit brass shell sockets

Number	Style	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
448	Cone	8"	X	100	600	85	\$0.33
449	"	10"	X	100	600	100	.35

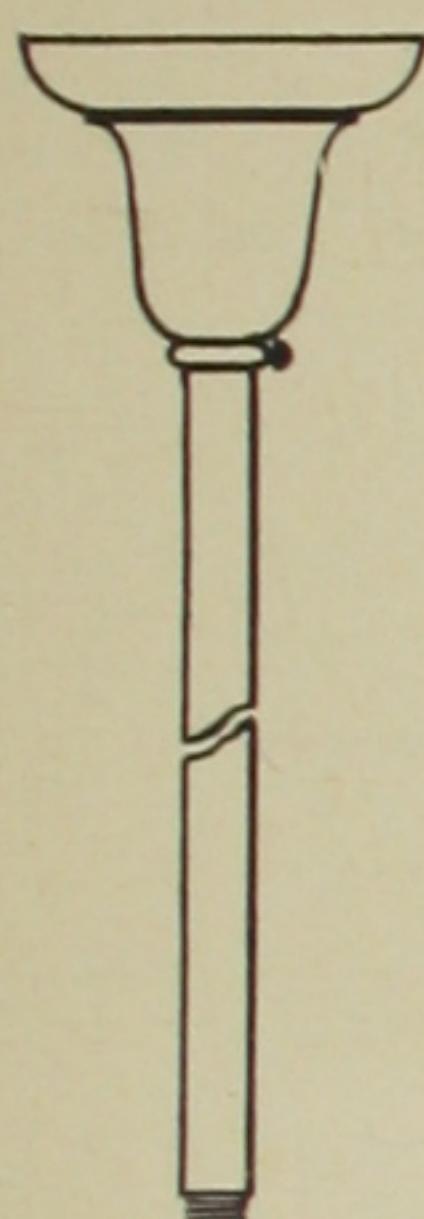
PAINT ENAMELED
Green Outside—White Reflecting Surface

With Wheeler "X" Holders attached, to fit brass shell sockets

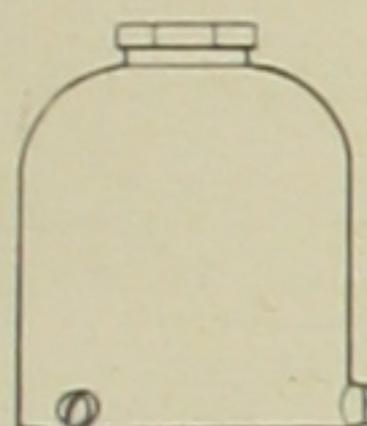
Number	Style	Diameter	Holder attached	Standard package	Standard quantity	Approx. wt. std. pkg.	List
450	Cone	8"	X	100	600	85	\$0.33
451	"	10"	X	100	600	95	.35
452	Flat	8"	X	100	800	55	.24
453	"	10"	X	100	700	50	.28



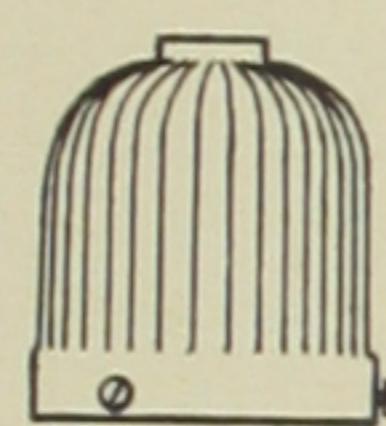
STANDARD FITTINGS



Std. Brass Stem



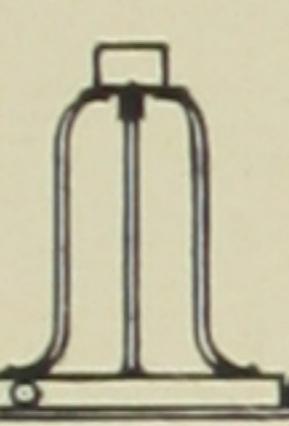
Canopy "S"



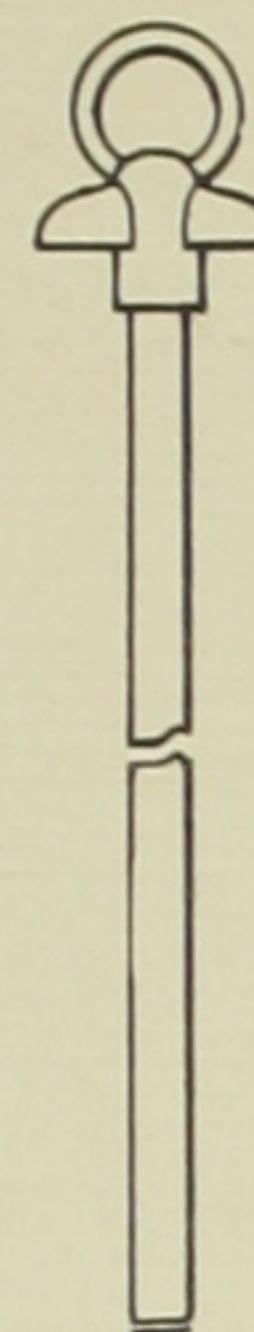
Canopy "K"



Std. Iron Bracket



Special Holder "D"

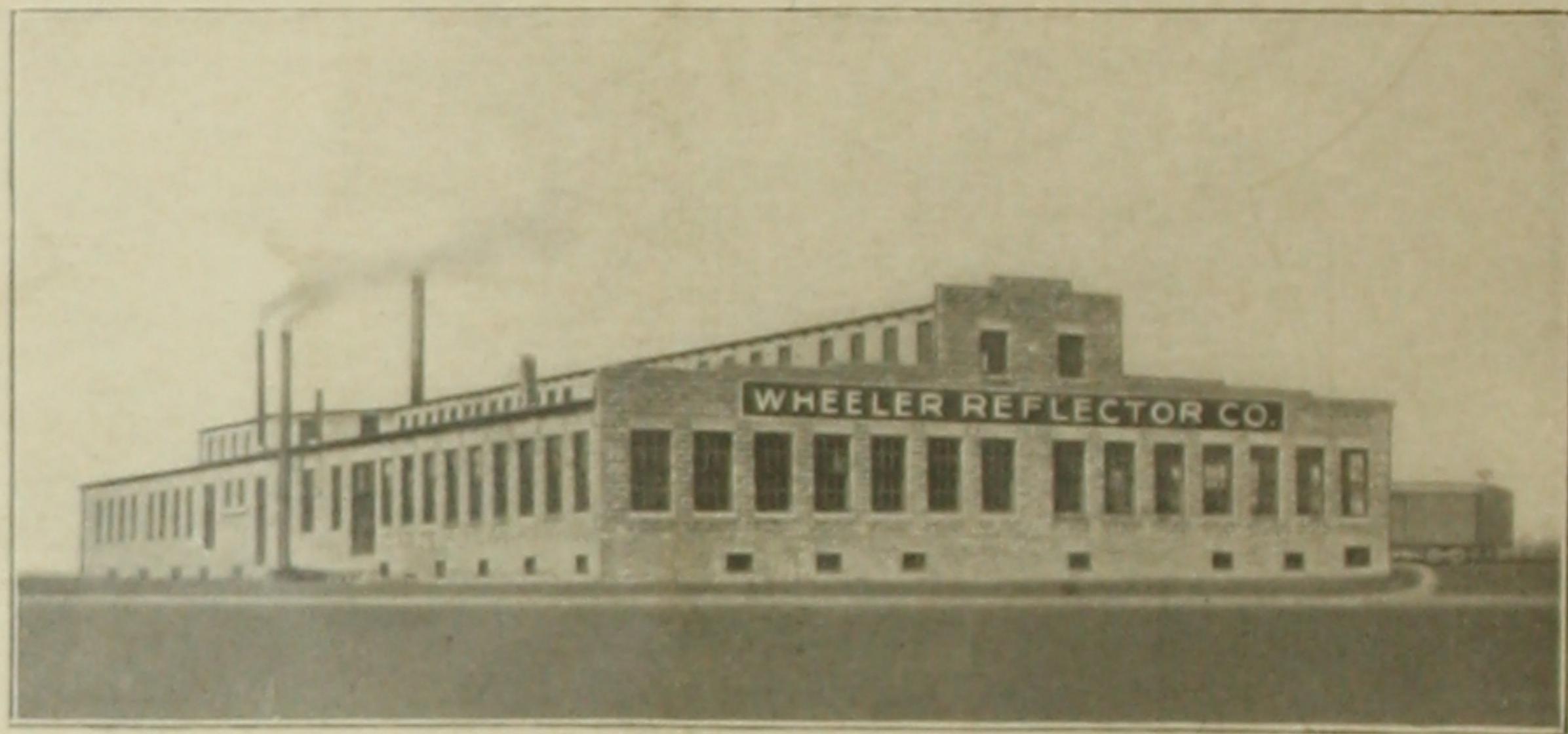


Std. Iron Stem

By a combination of Standard Fittings, listed below, with Wheeler "PARA-STEEL" Reflectors, a wide range of Fixtures may be assembled to meet every industrial lighting requirement.

Canopies "S" and "K" 2 $\frac{1}{2}$ " and 3 $\frac{1}{4}$ ", with standard or large Edison base sockets, have three set screws to support Reflector. Some Fixtures are listed with these Canopies permanently attached to Reflector.

Flat Holder 2 $\frac{1}{4}$ ", for Brass Shell Sockets	\$0.08
Flat Holder 2 $\frac{1}{4}$ ", for Porcelain W. P. Sockets	.08
Deep Holder 2 $\frac{1}{4}$ "	.23
Spun Brass Holder 2 $\frac{1}{4}$ ", $\frac{3}{8}$ " male and $\frac{3}{8}$ " female thread	.48
Holder "F" 3 $\frac{1}{4}$ " for Brass Shell Sockets	.48
Holder "D" 3 $\frac{1}{4}$ ", $\frac{3}{8}$ " male and $\frac{3}{8}$ " female thread	.48
Canopy "S" 2 $\frac{1}{4}$ ", with Std. Ed. base socket attached, $\frac{3}{8}$ " female thread	\$0.70
Canopy "S" 3 $\frac{1}{4}$ " "	.85
Canopy "S" 3 $\frac{1}{4}$ " Large "	1.40
Canopy "K" 2 $\frac{1}{4}$ " Std. "	.70
Canopy "K" 3 $\frac{1}{4}$ " "	.85
Canopy "K" 3 $\frac{1}{4}$ " Large "	1.40
Standard Brass Stem, 12" x $\frac{3}{8}$ " iron pipe, with Crowfoot, Brass Casing and Canopy	\$1.28
Extra length per foot	.53
Standard Iron Stem, 12" x $\frac{3}{8}$ " iron pipe, with Suspension Loop and ports for wire-entry	.53
Extra length, per foot	.23
Standard Heavy Iron Stem, 18" x $\frac{3}{4}$ " iron pipe, with Suspension Loop and ports for wire-entry	1.13
Extra length, per foot	.30
Standard Iron Bracket, 30" x $\frac{1}{2}$ " iron pipe, with Flange	.98
Standard Heavy Iron Bracket, 48" x $\frac{3}{4}$ " iron pipe and 3-hole Flange for heavy fixtures, subject to wind-stress	1.20



FACTORY AT BURRAGE, MASS.
Where "PARA-STEEL" REFLECTORS are
Manufactured in their Entirety.

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CCA